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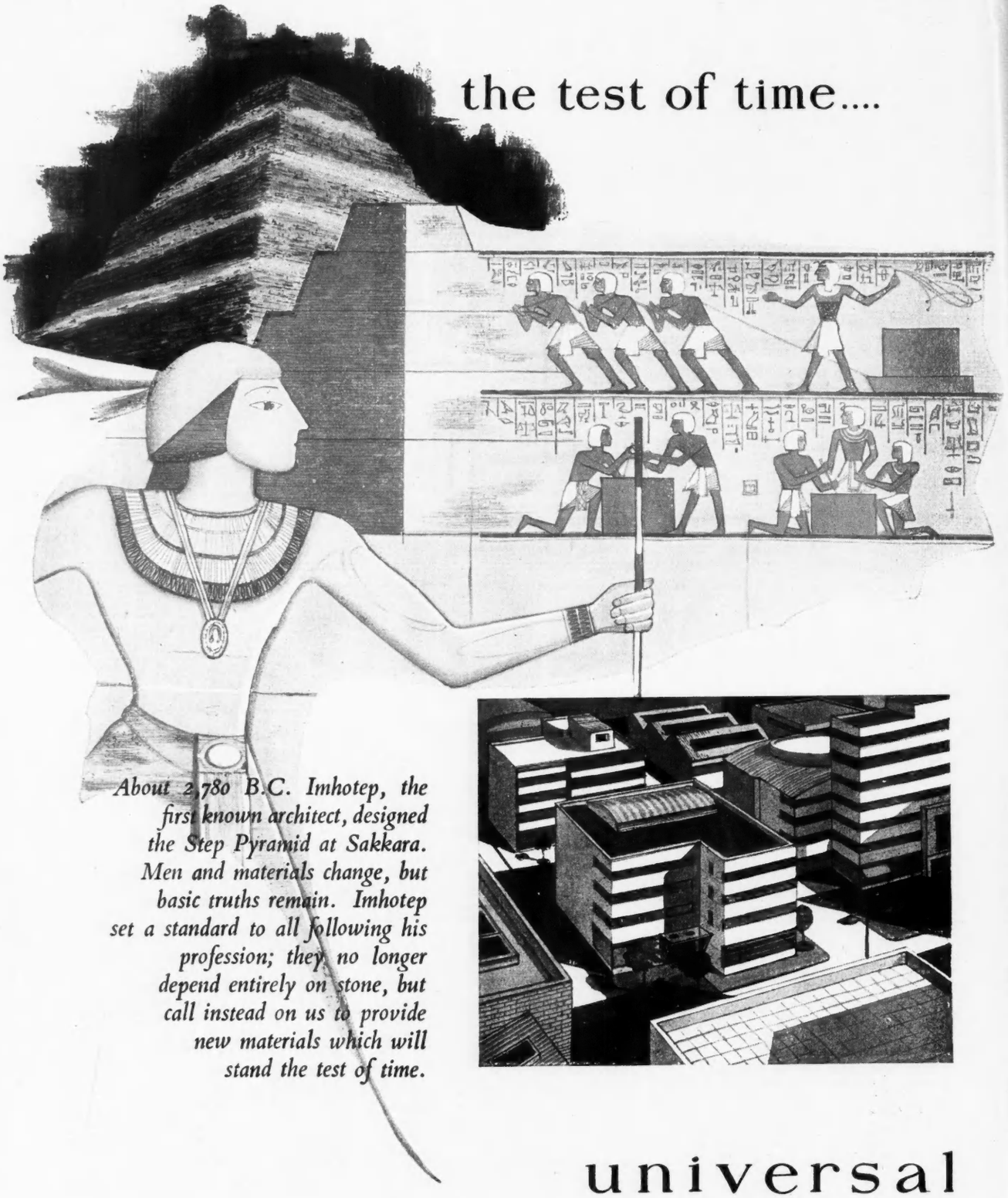

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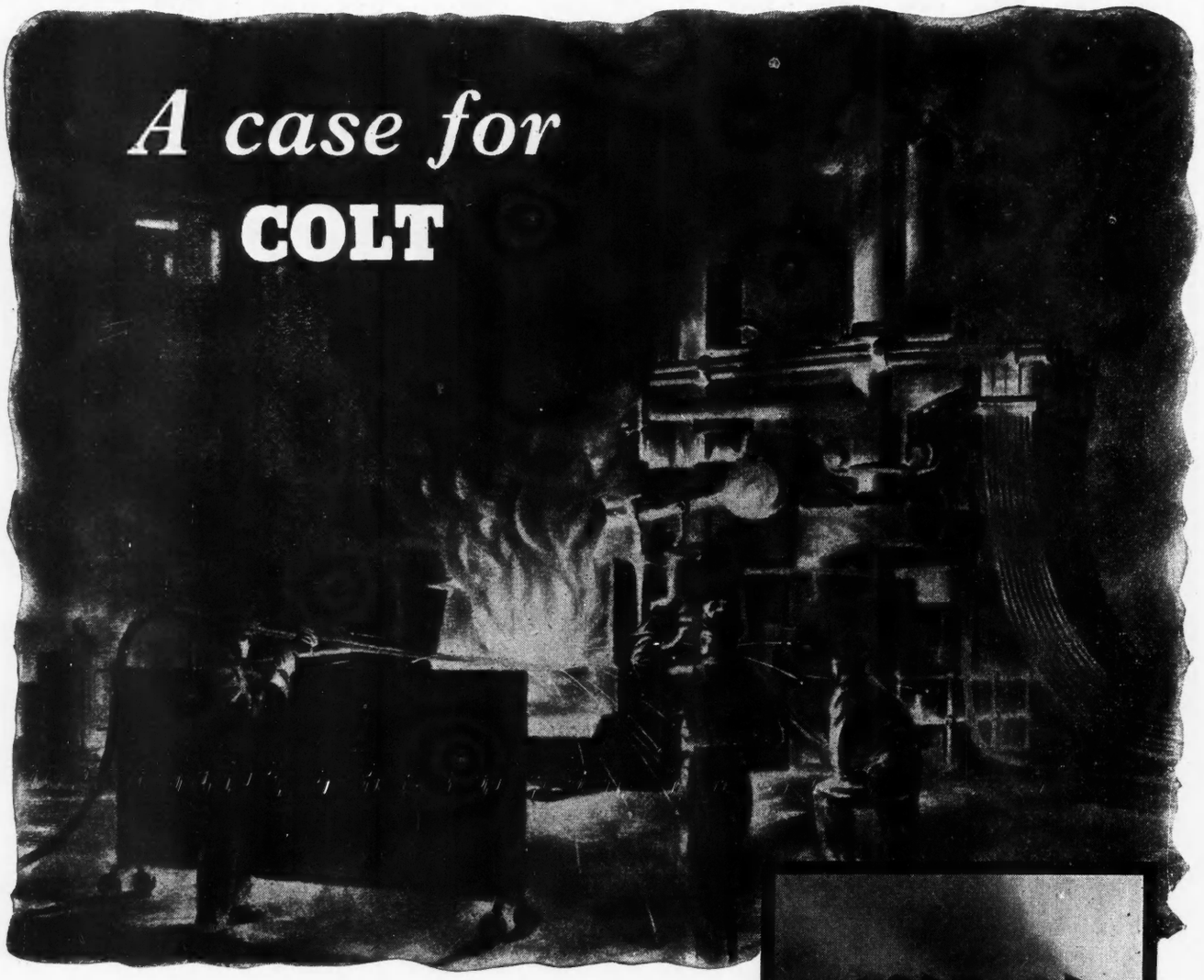


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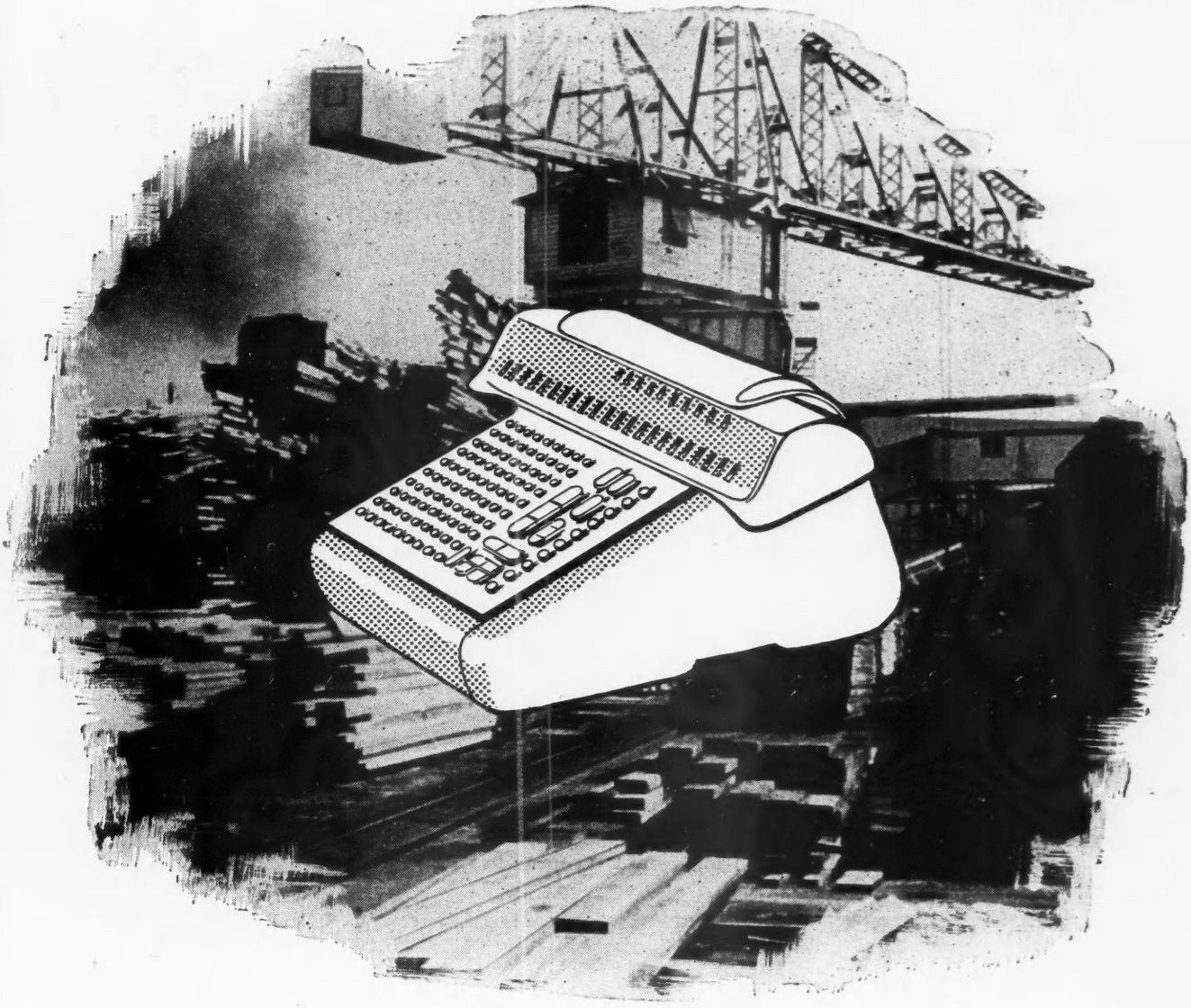

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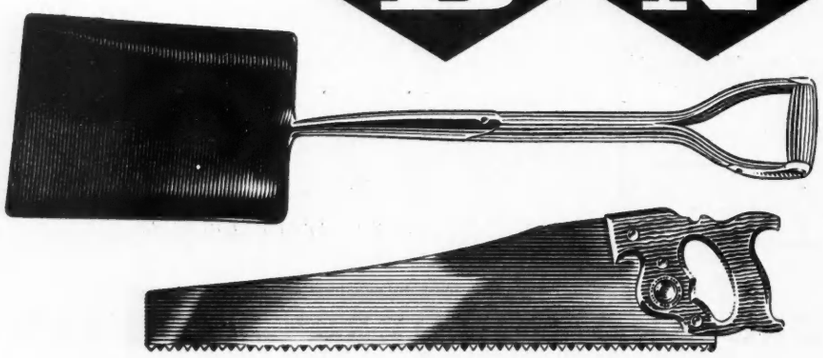

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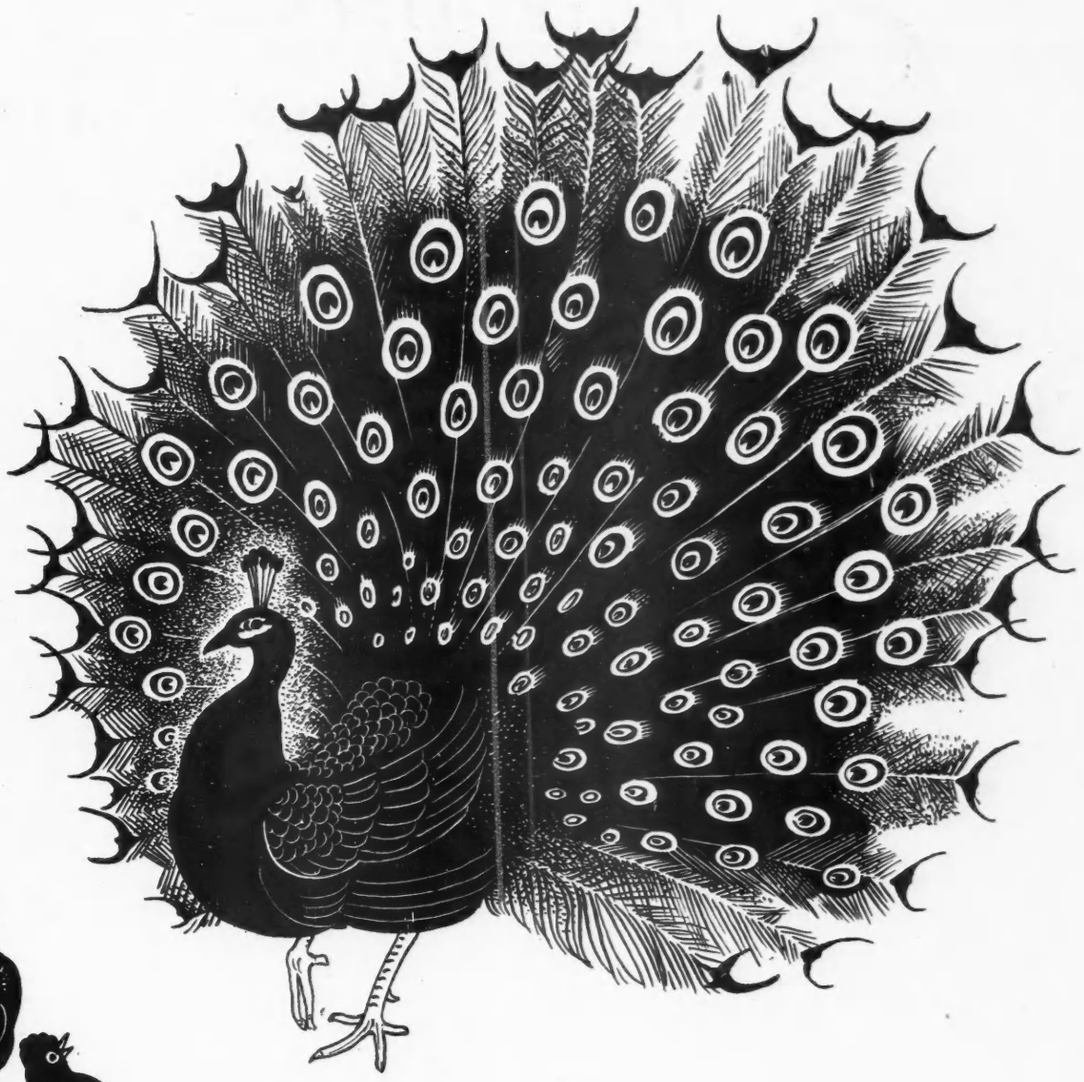

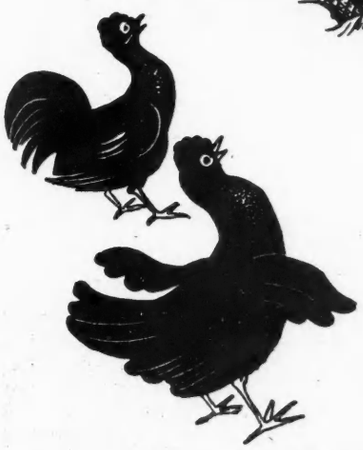

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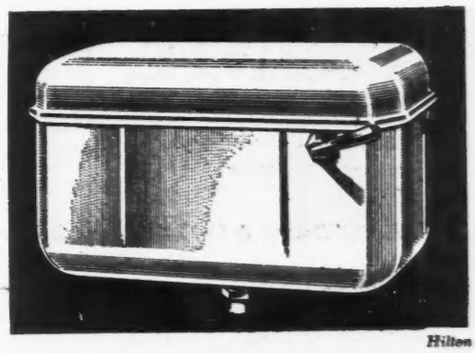

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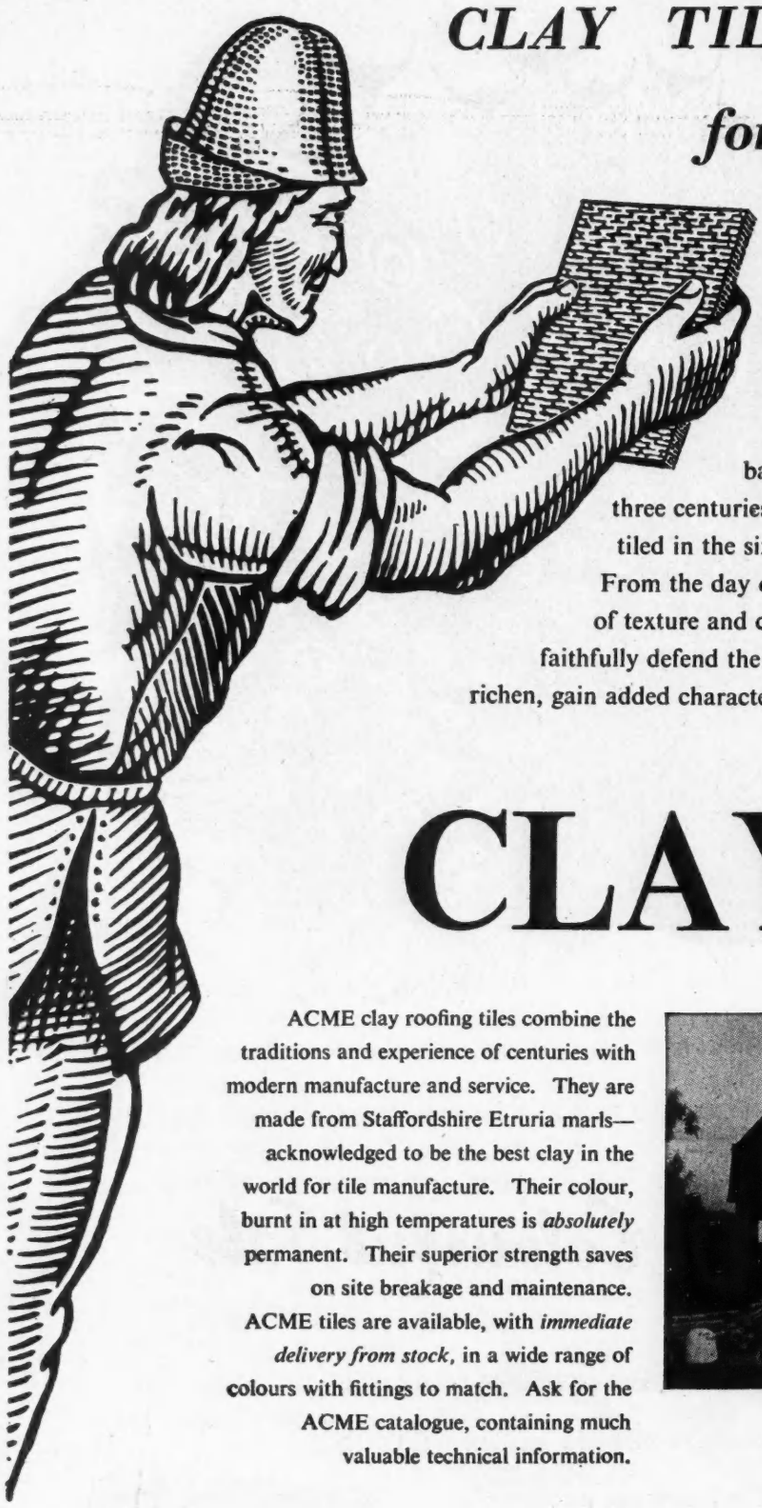

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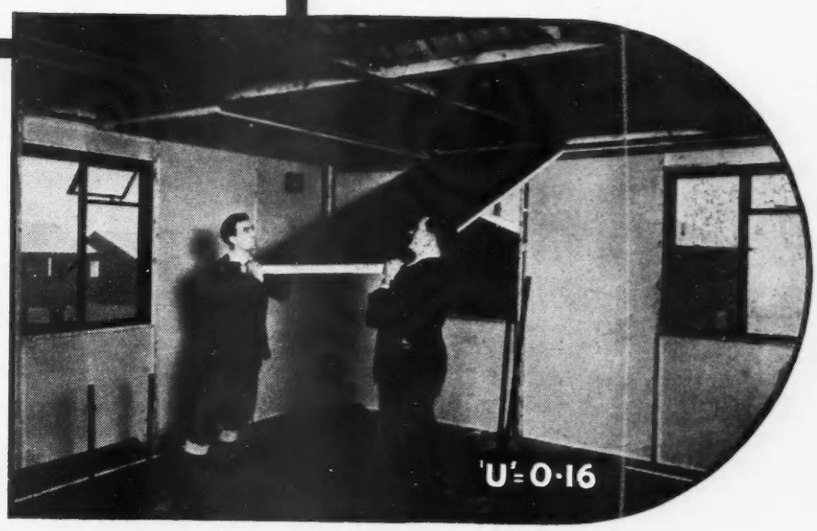


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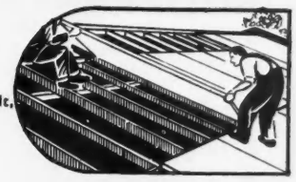

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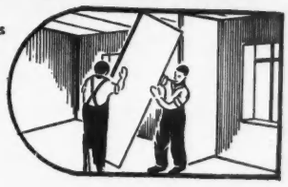

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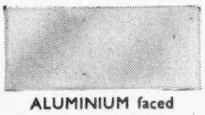
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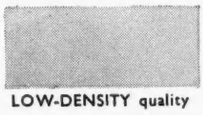
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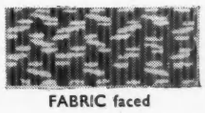
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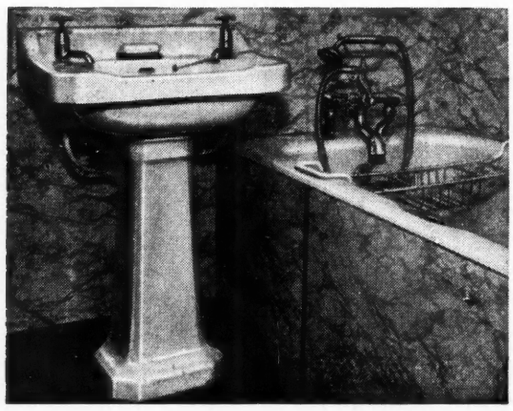

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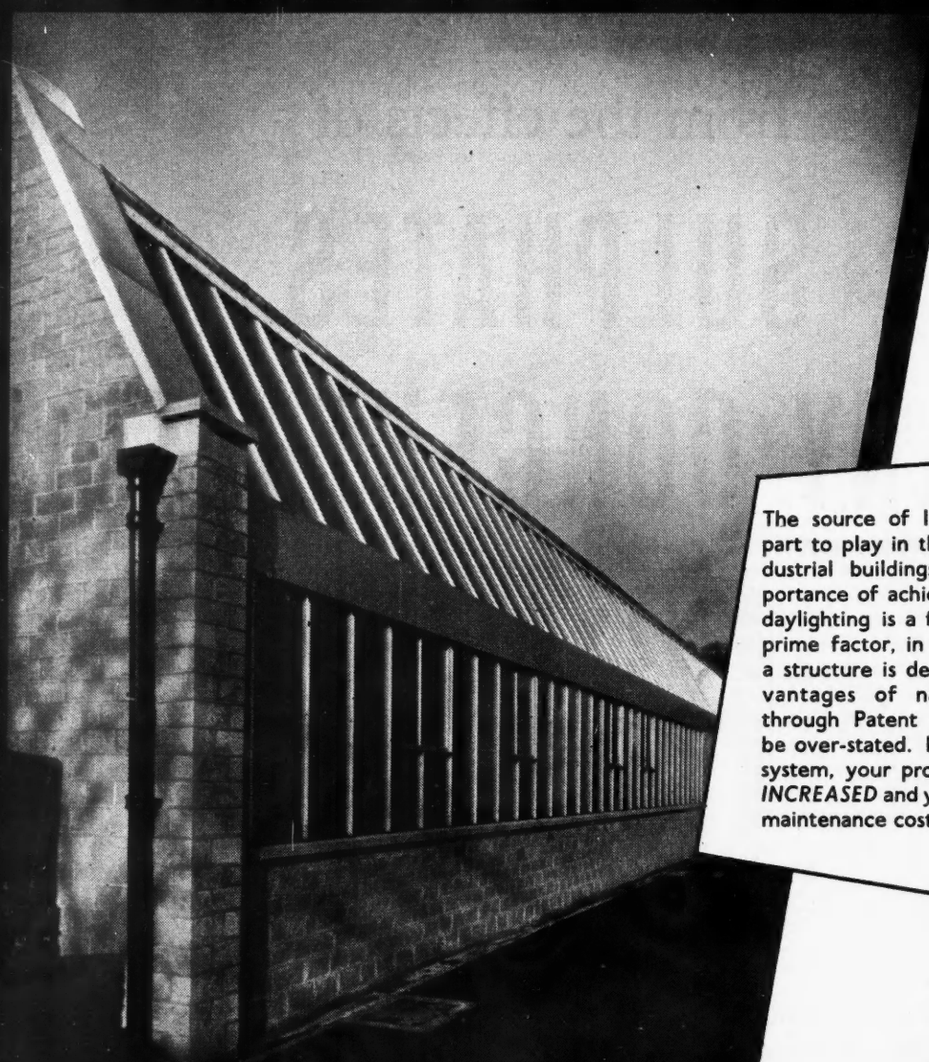

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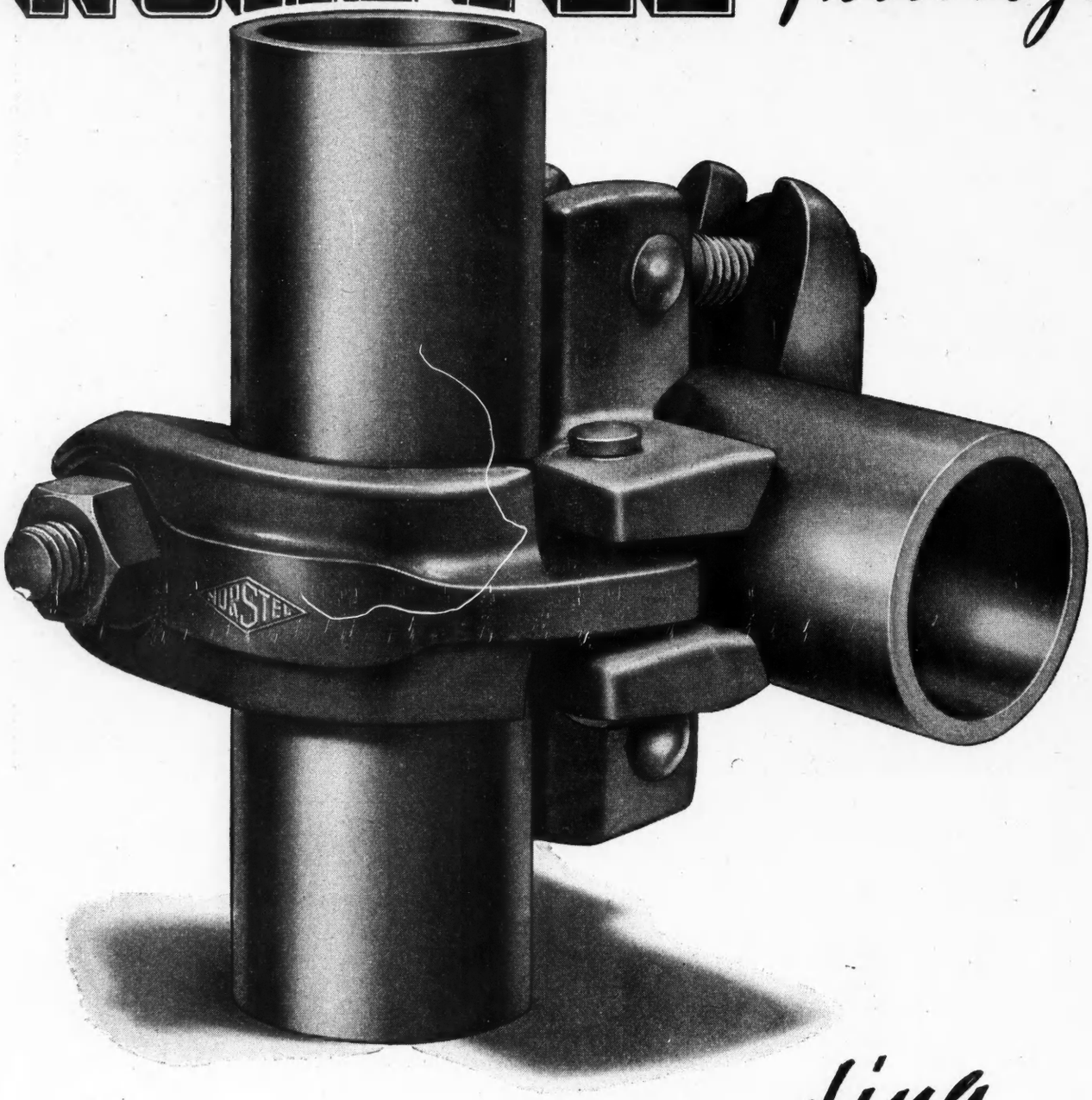


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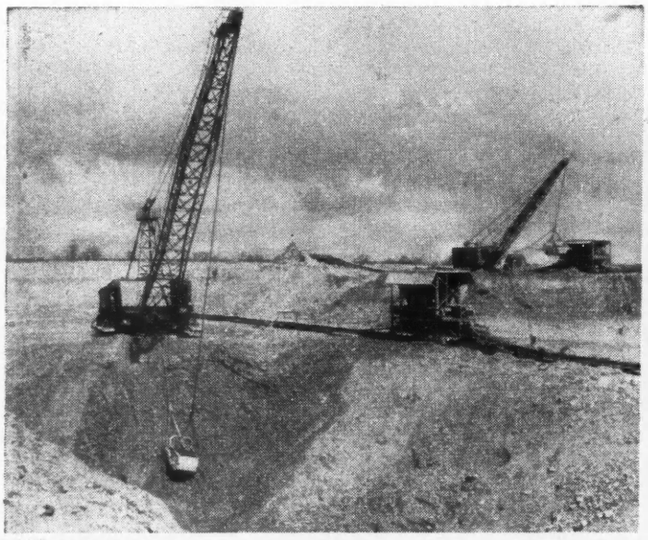

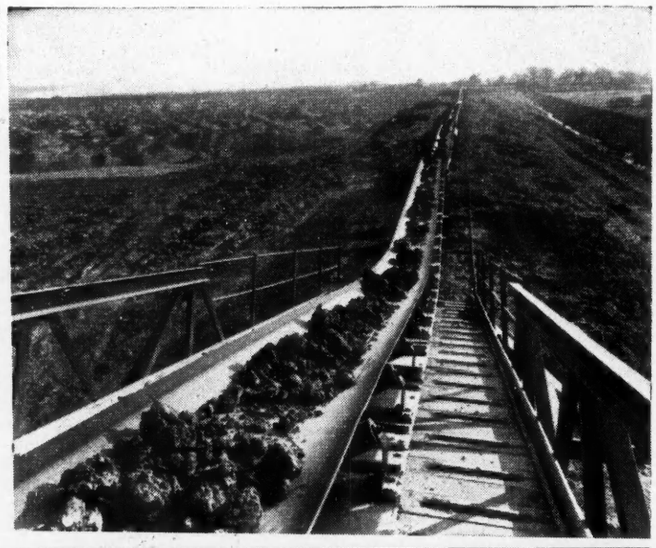

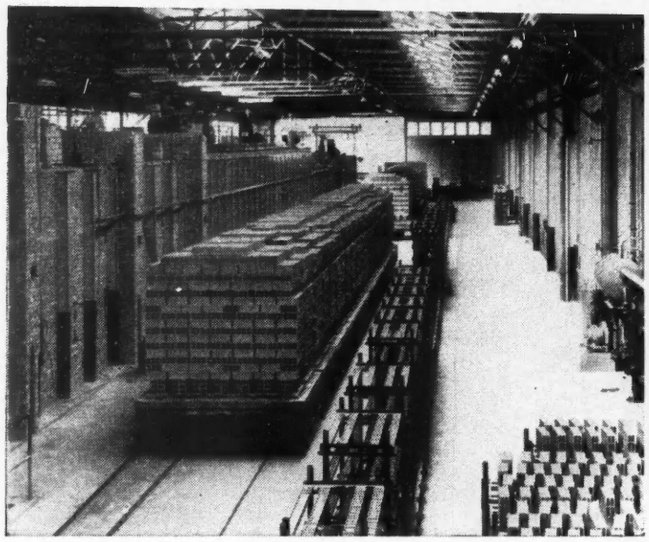

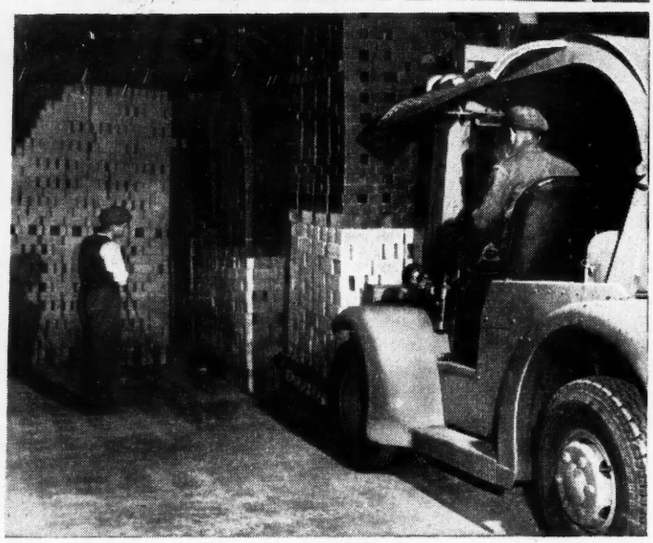

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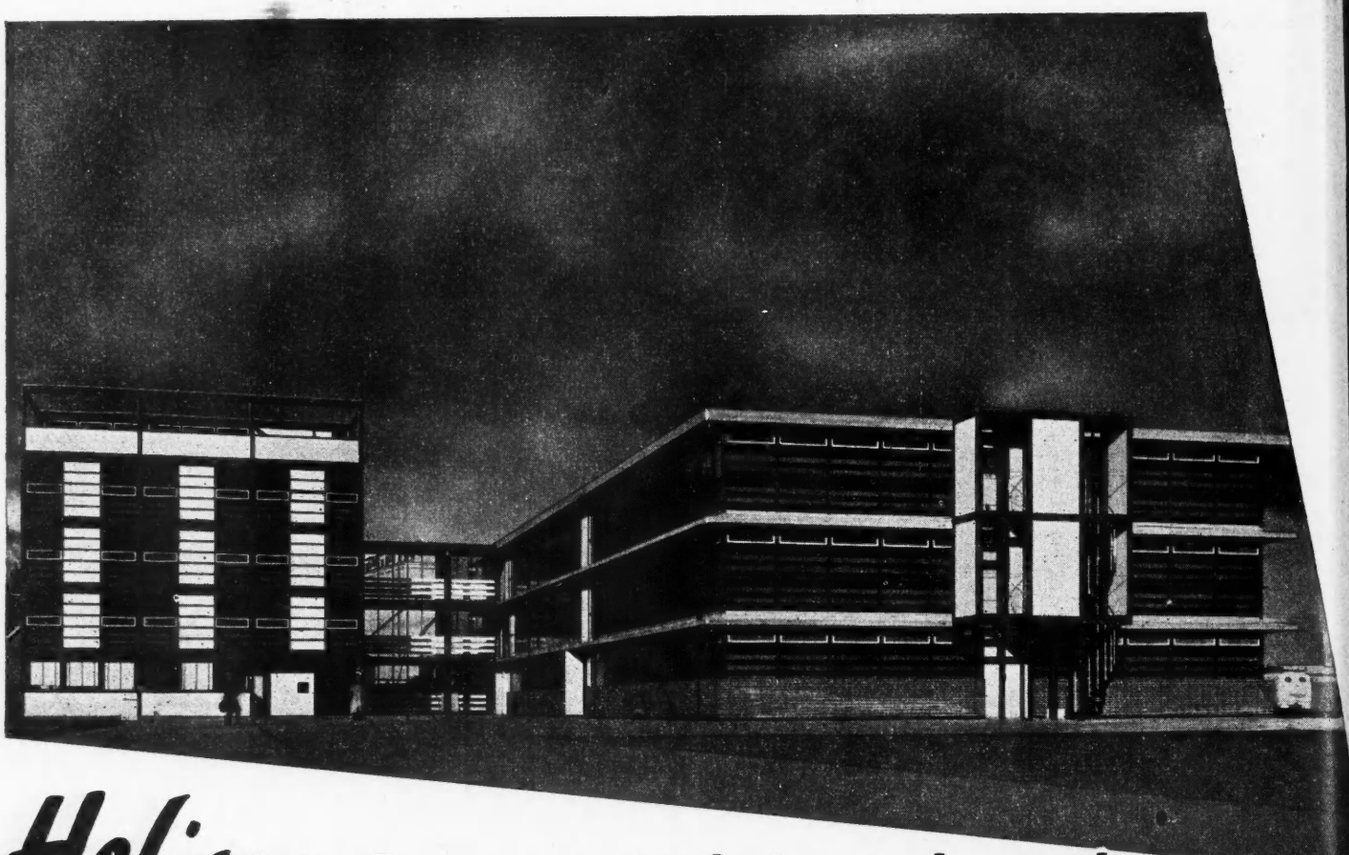
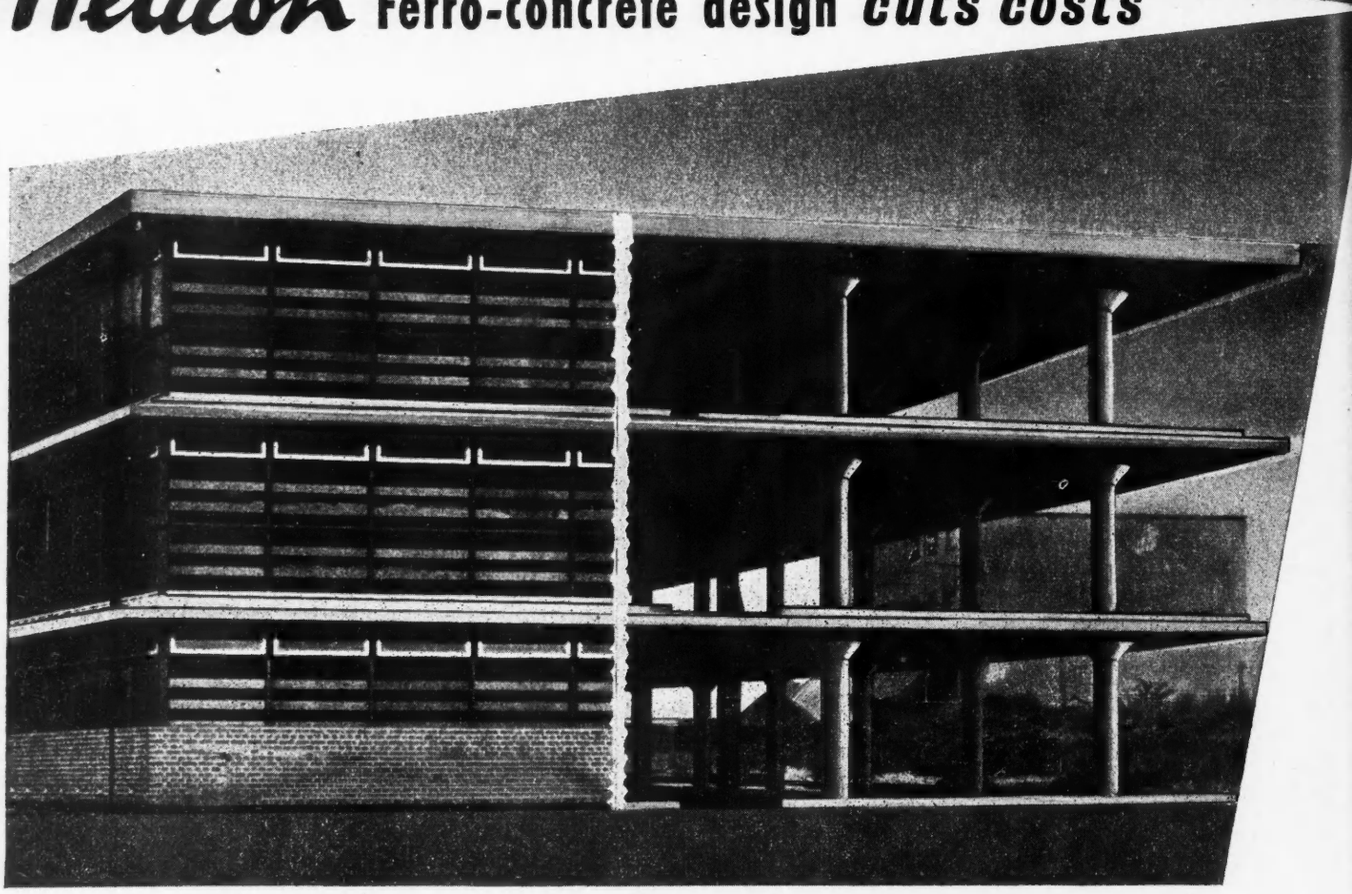


# *Helicon* Ferro-concrete design *cuts costs*



**Ferro-Concrete Design · M.S. Reinforcement · Construction**

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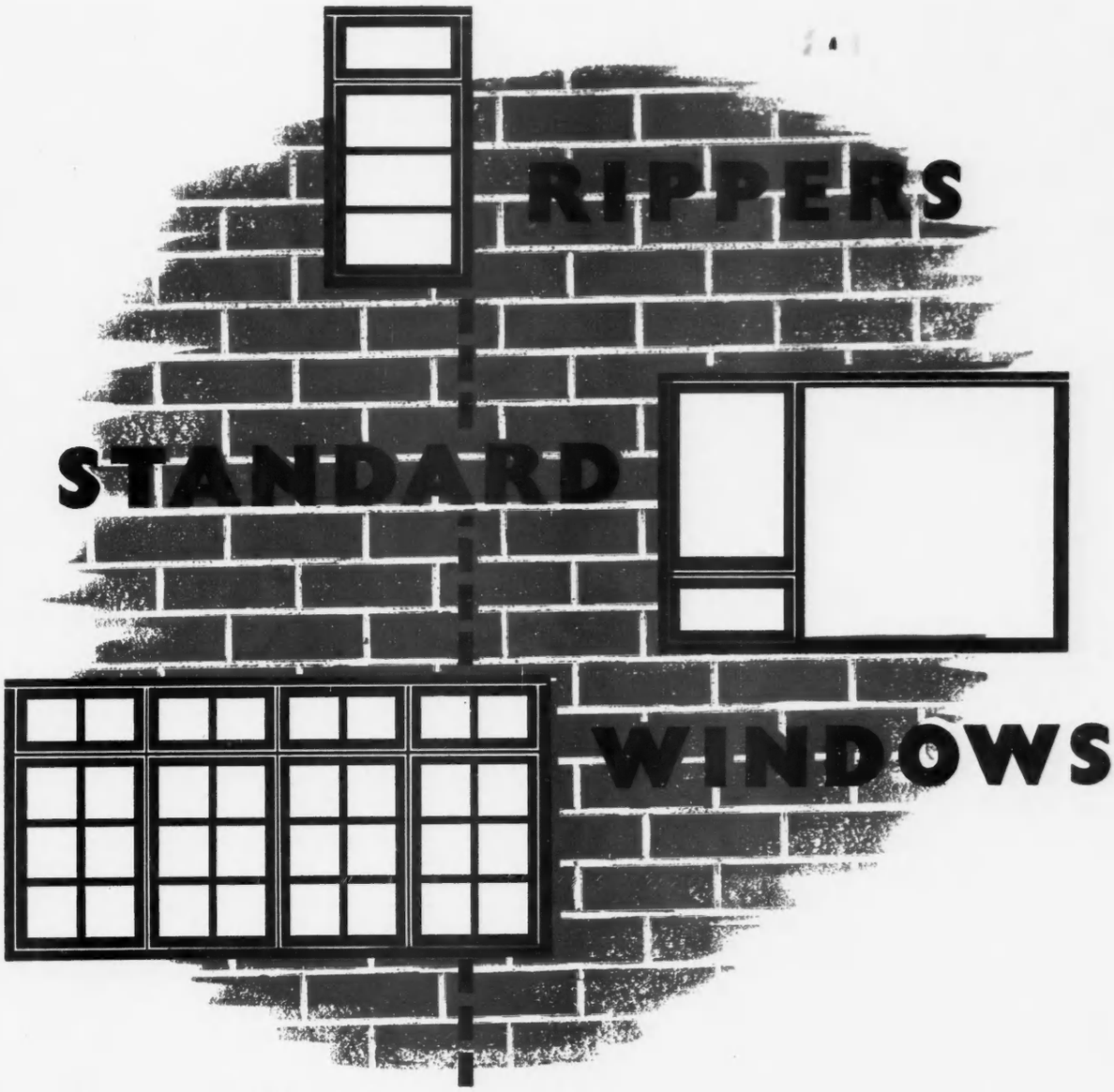


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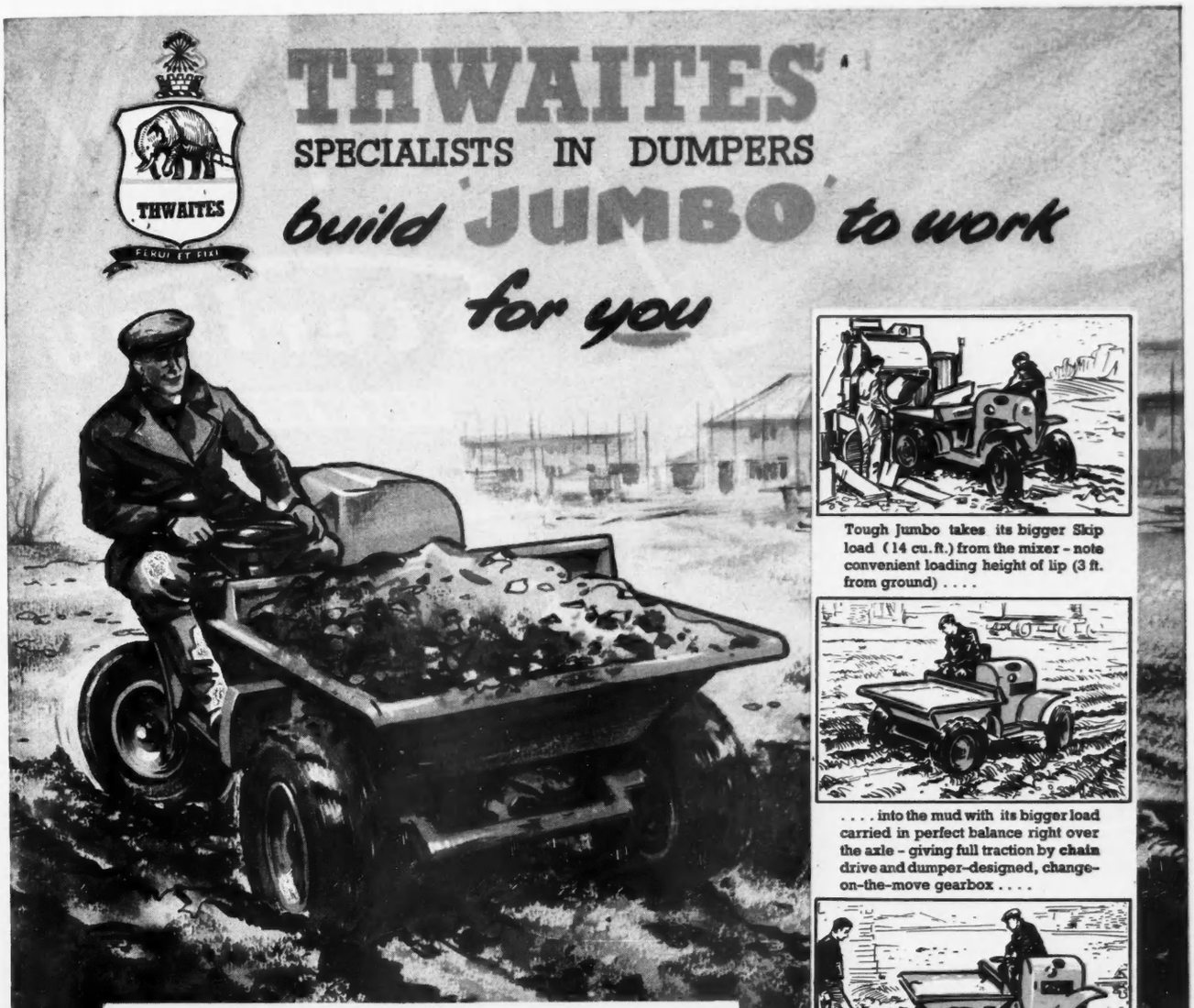



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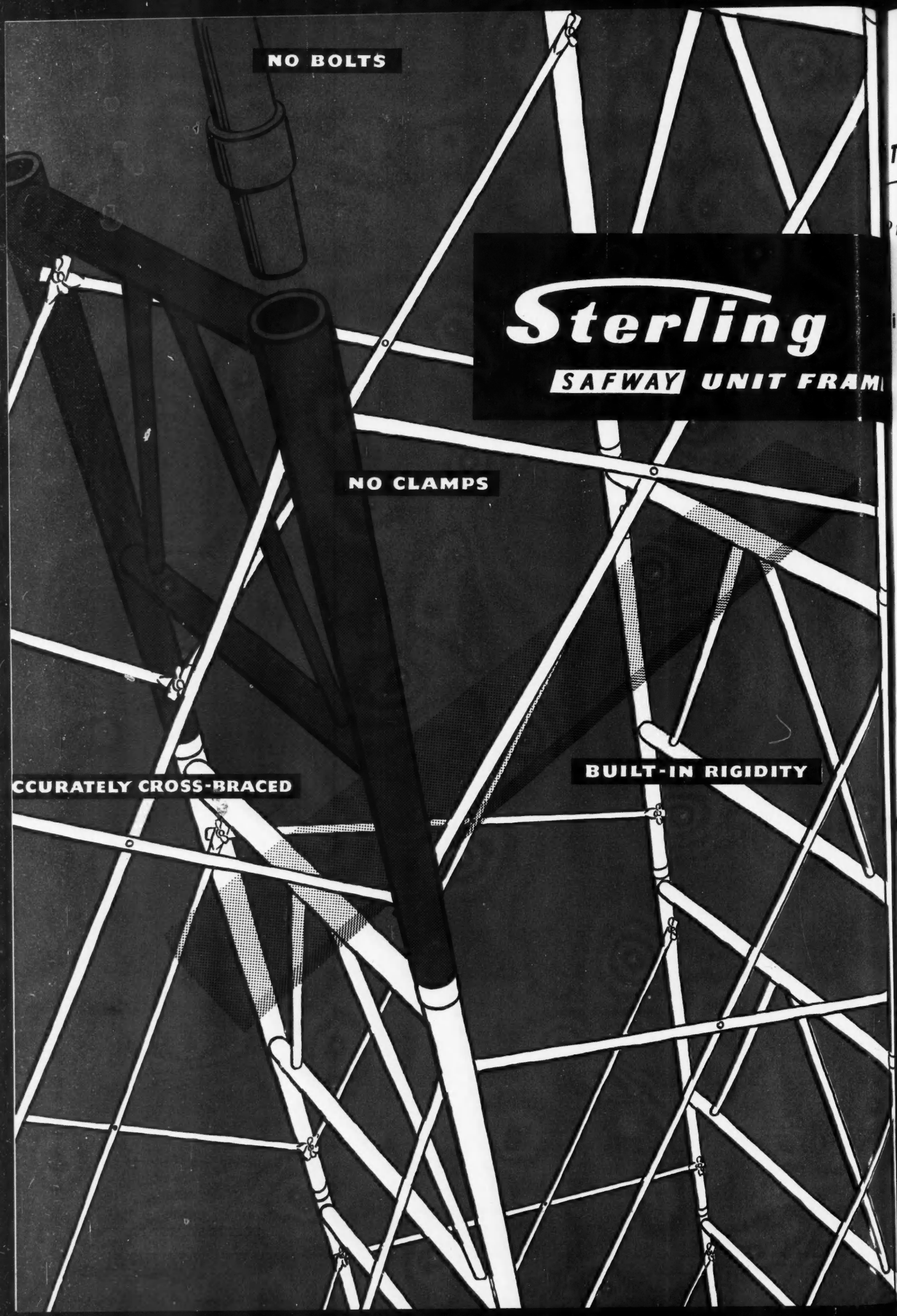


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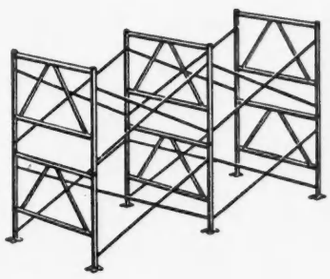
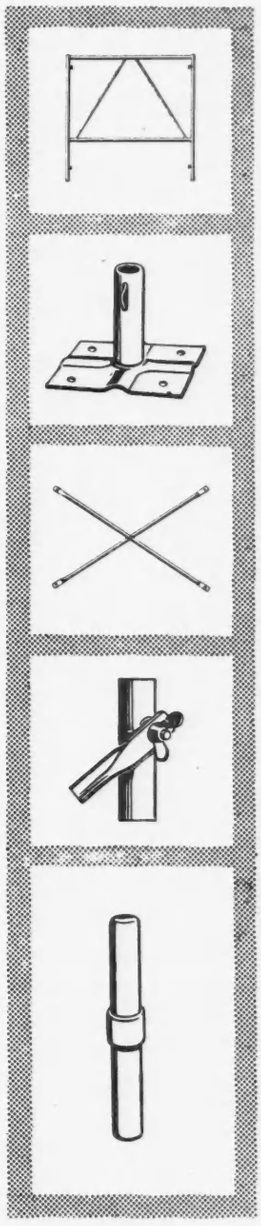
# TERLING SAFWAY UNIT FRAME SCAFFOLDING

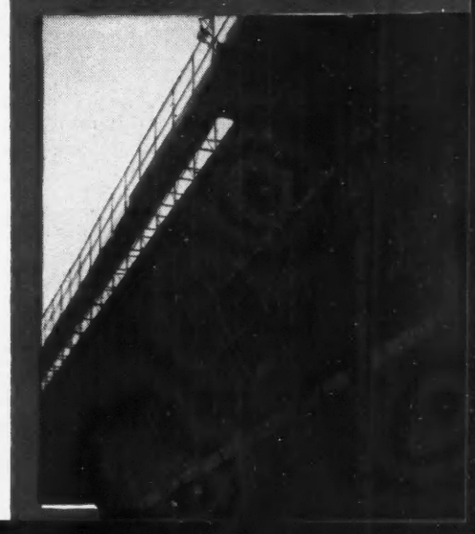
*Prefabricated for immediate application*

## implicity of erection

Safway Scaffolding consists of a number of standardised parts made from steel tubes, welded into light, strong durable assemblies. The basic unit consists of two end frames and two cross braces and by using coupling pins and additional parts any structure may be developed. Because of its simplicity, Safway can be erected by your own unskilled workmen which means greater operating economy on any job where scaffolding is required.







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# 10 Tons...

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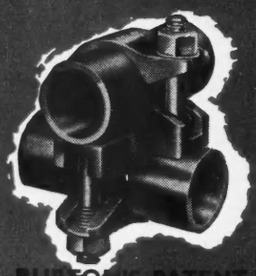
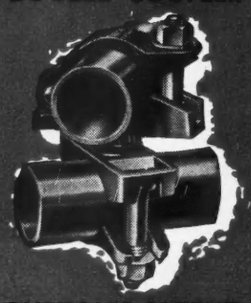


BURTON'S PATENT DOUBLE COUPLER



BURTON'S PATENT SWIVEL COUPLER

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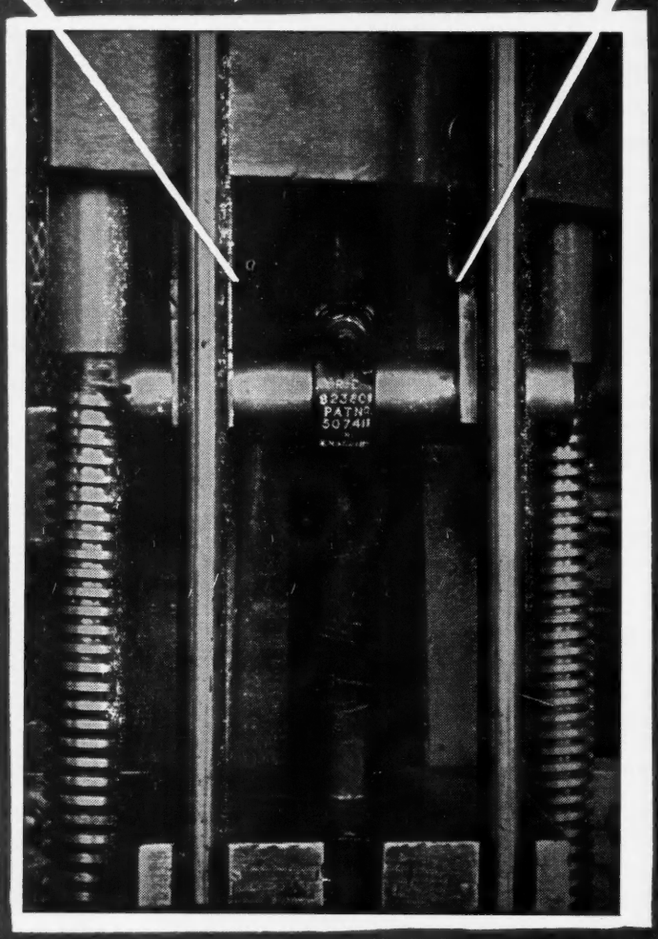

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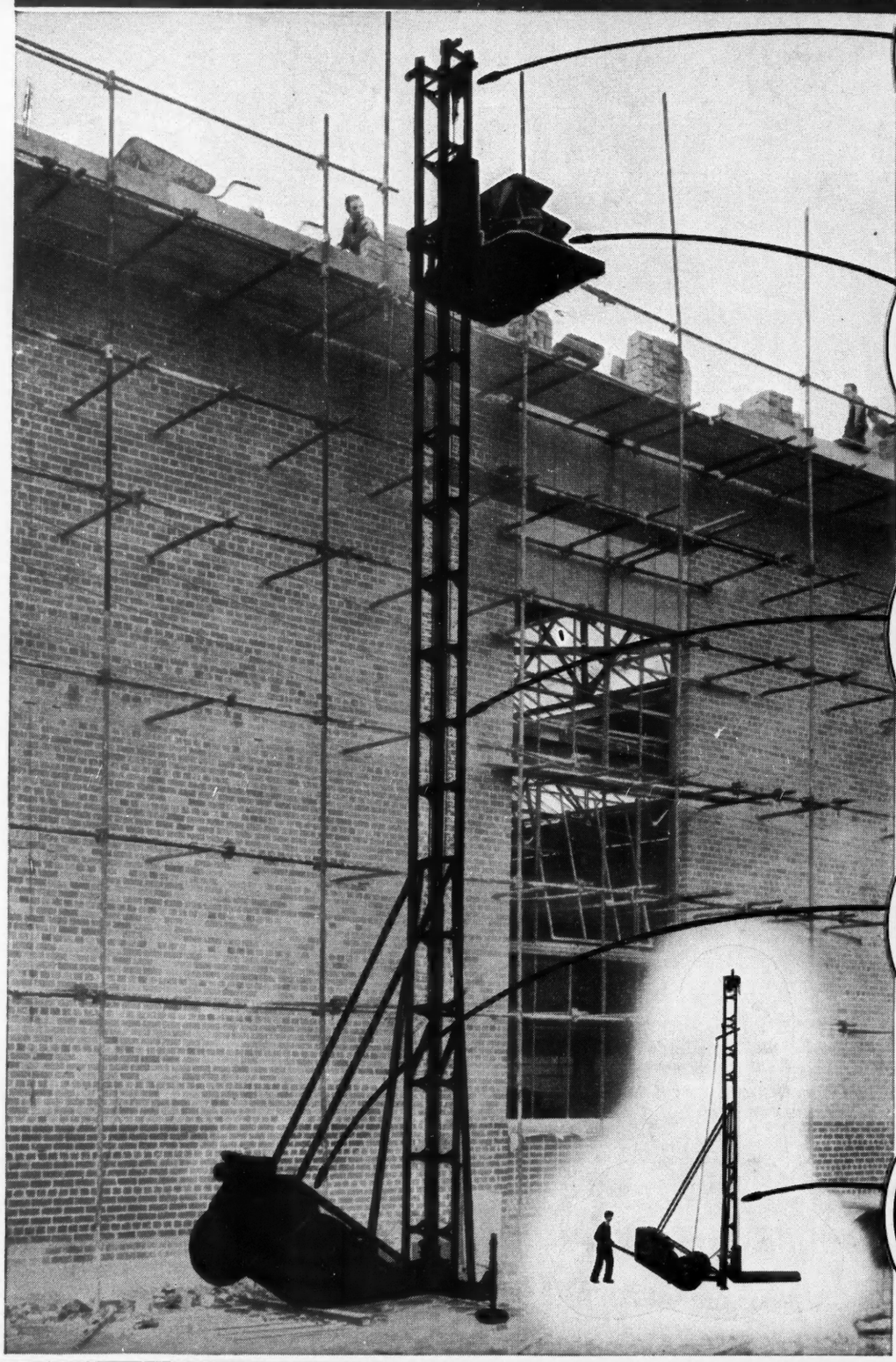

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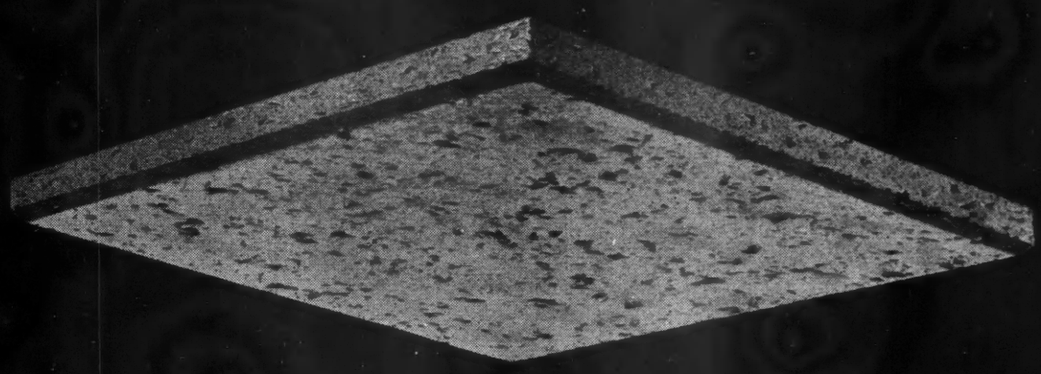

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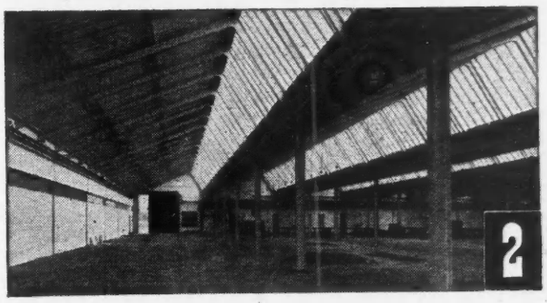

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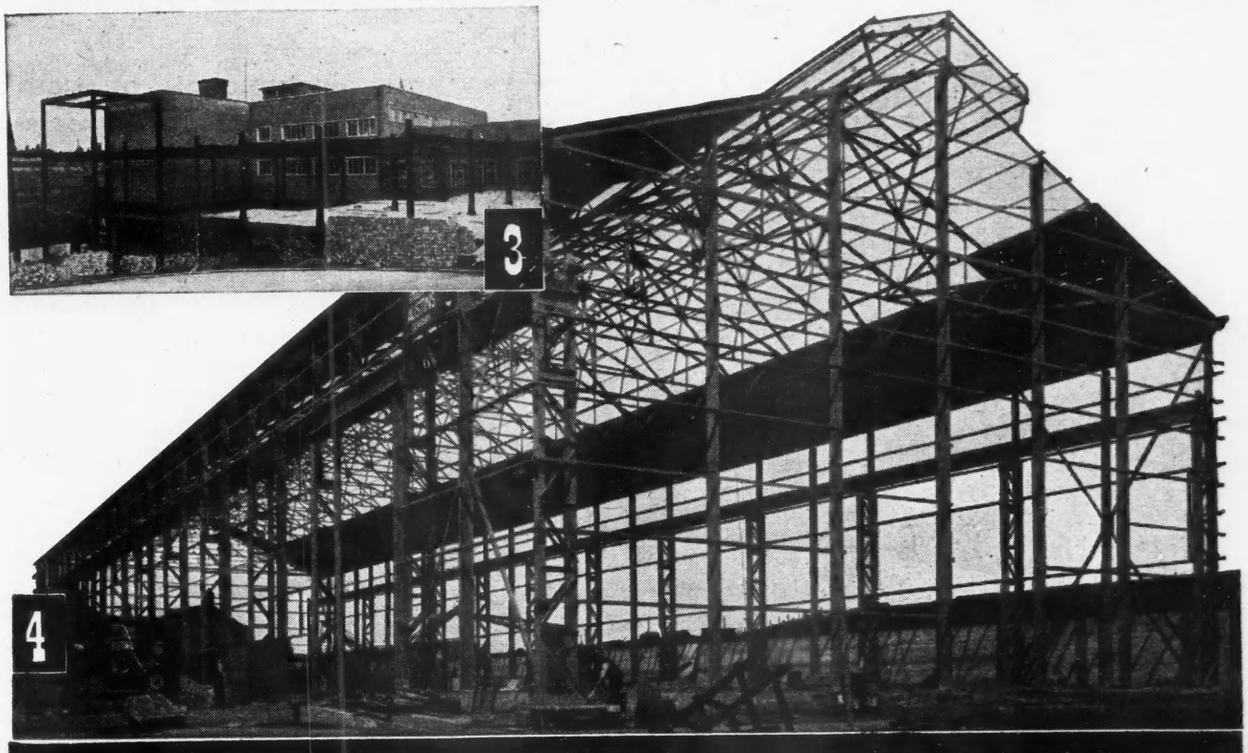

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*Aerial view of part of the L.C.C. Housing Estate, Merstham*


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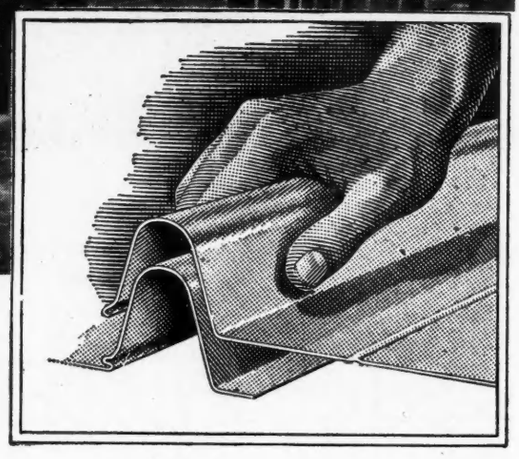

*Houses at Andover, Hampshire, roofed with Noral Snaprib Sheet. Borough Engineer: R. S. Offord, B.Sc.(Lond.), D.P.A., A.M.I.C.E., M.I.M.E. Main Contractors: Eades Bros. Ltd. Roofing Contractors: Hooper and Ashby Ltd.*

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*The "Snaprib" system is fully covered by patents held by Cookson Sheet Metal Developments Ltd.*

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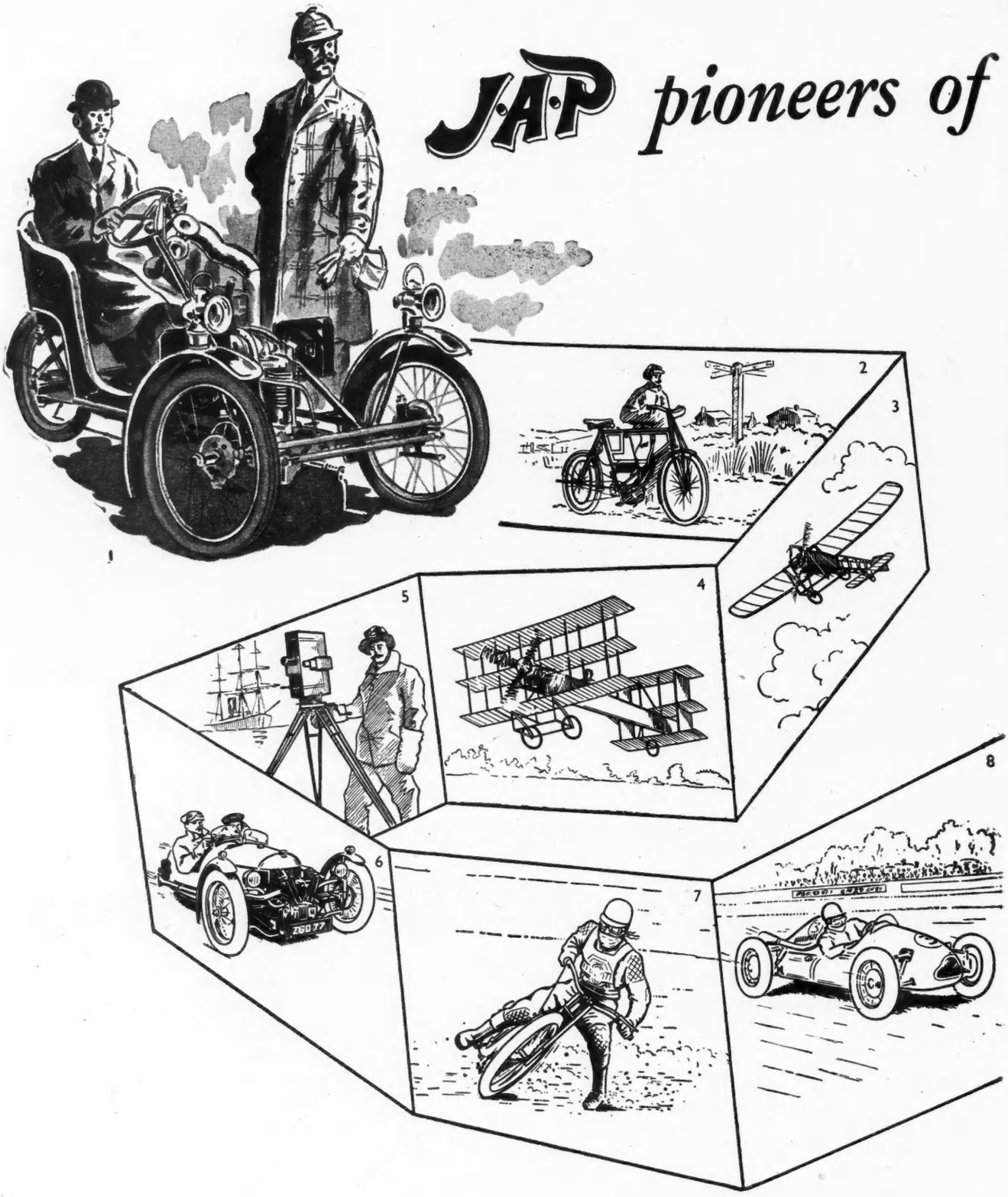


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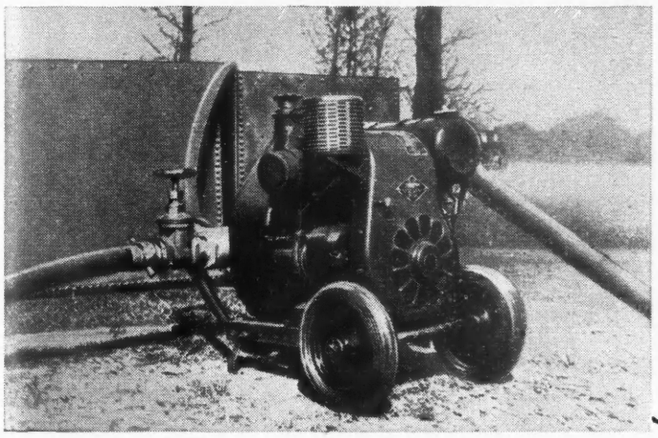

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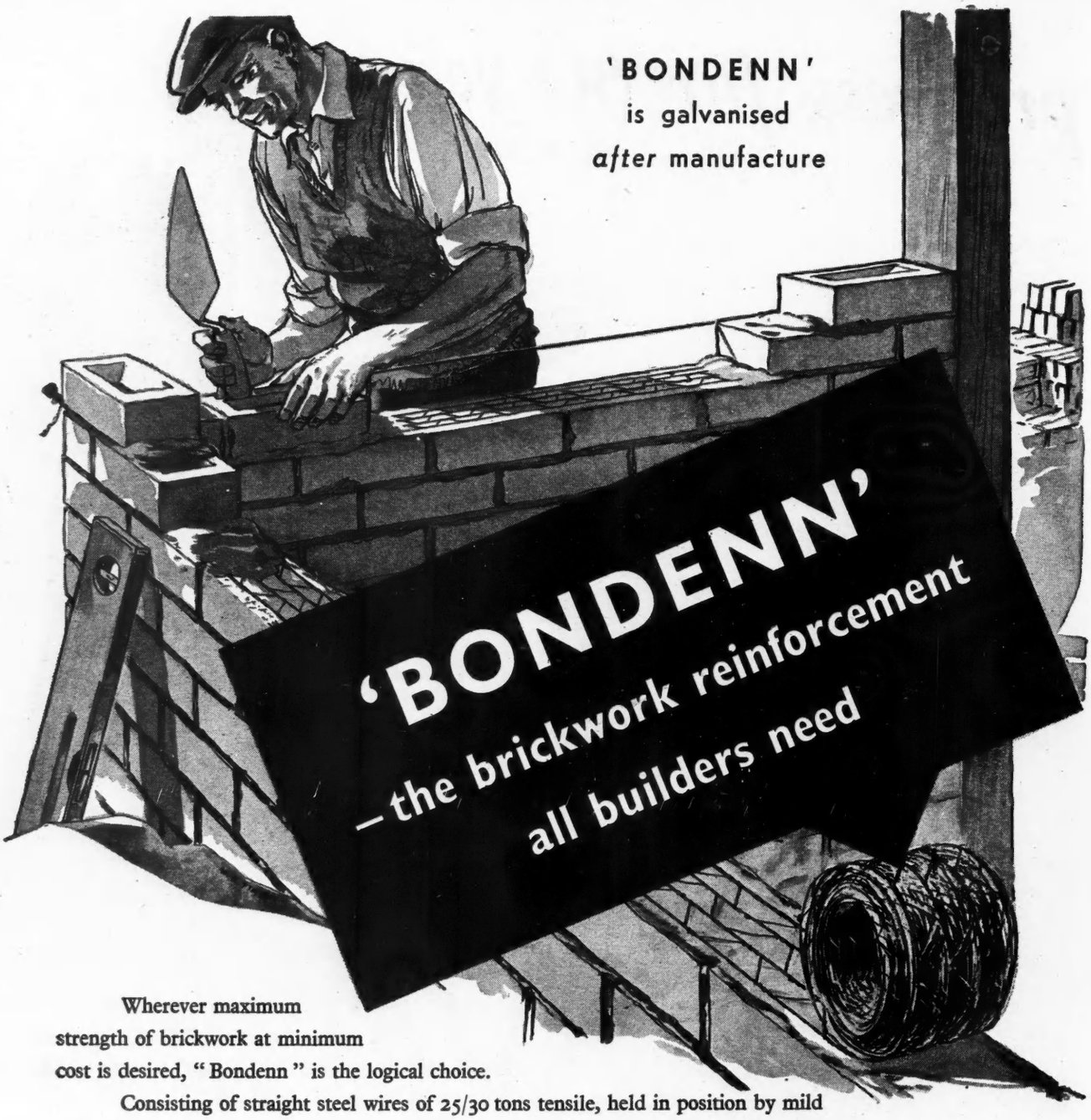


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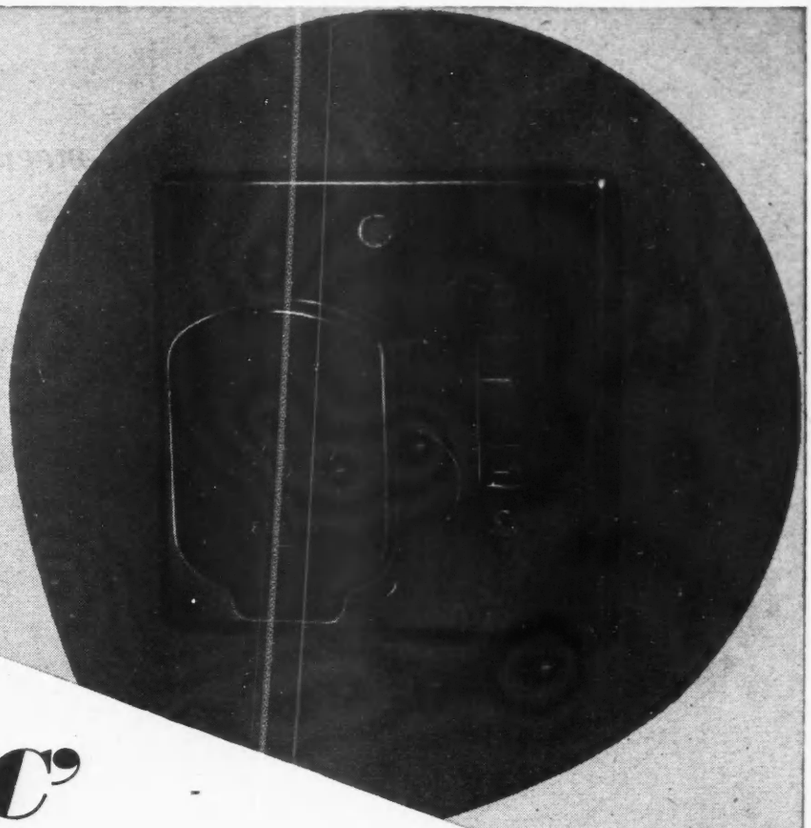

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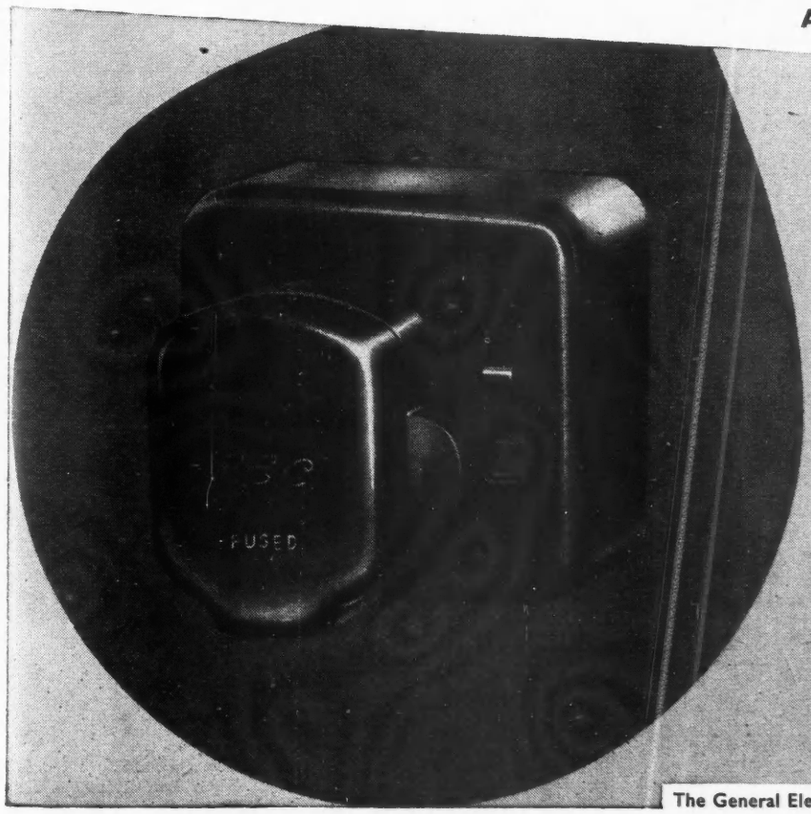


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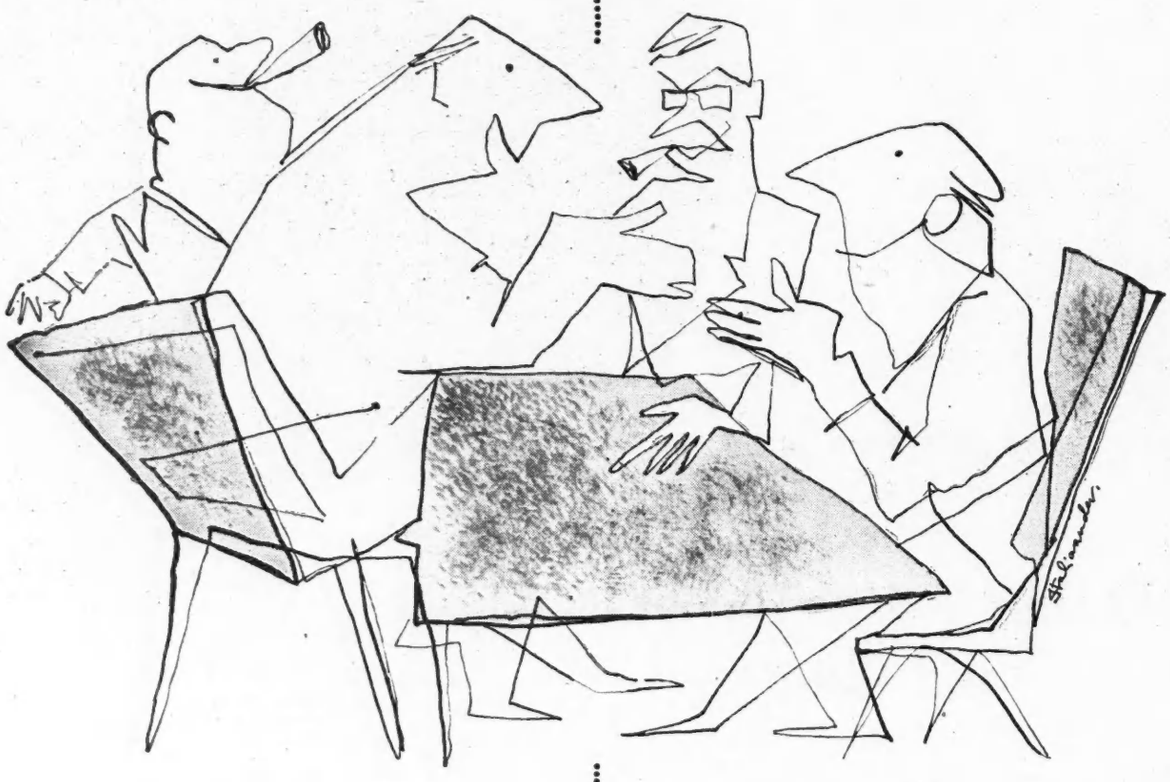

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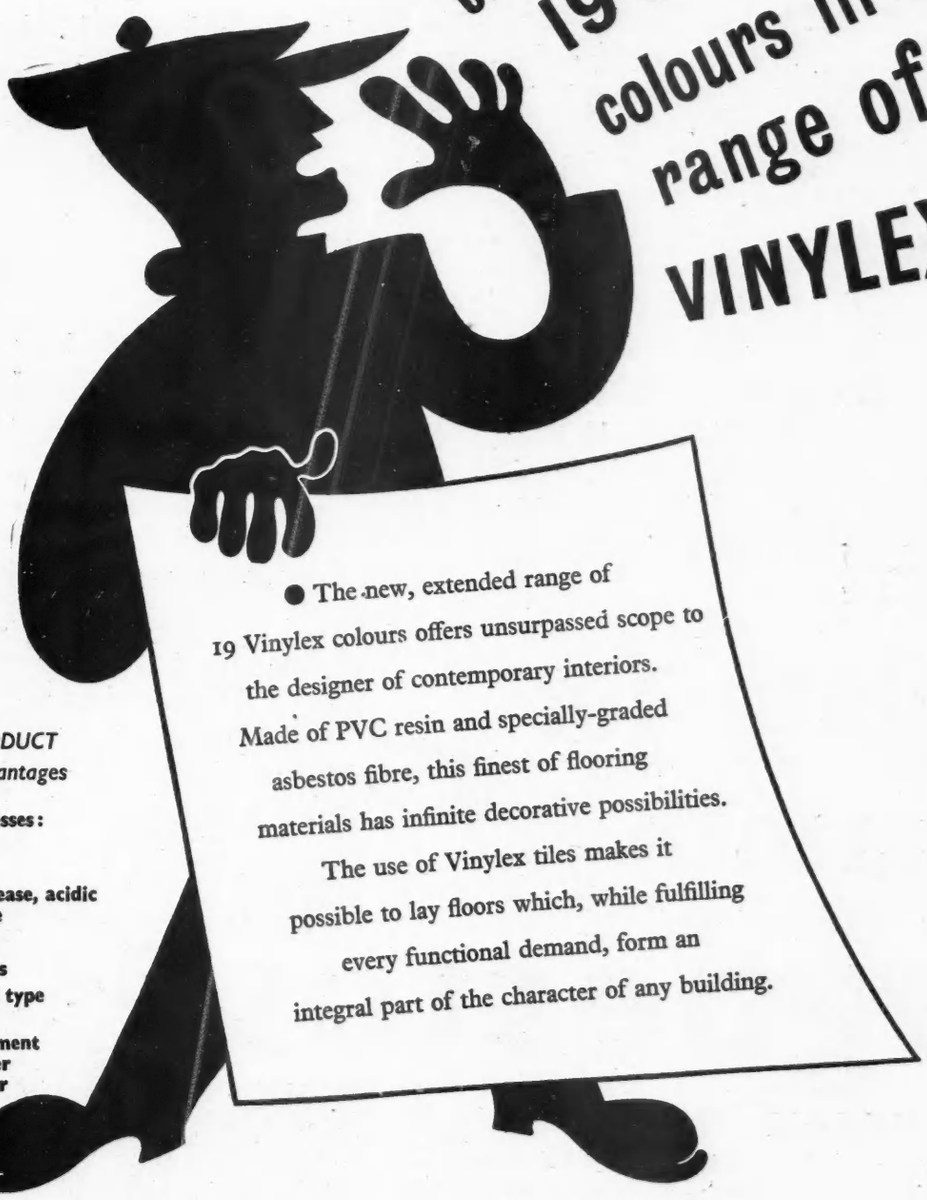

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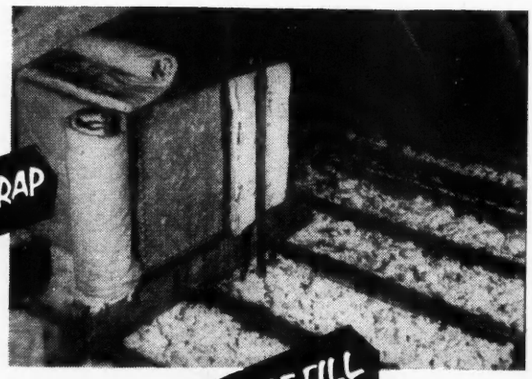


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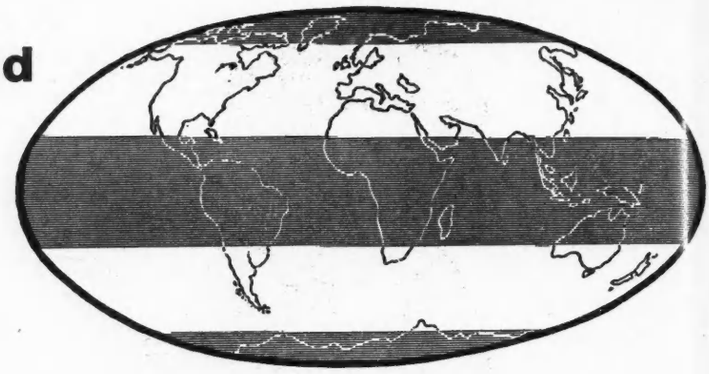

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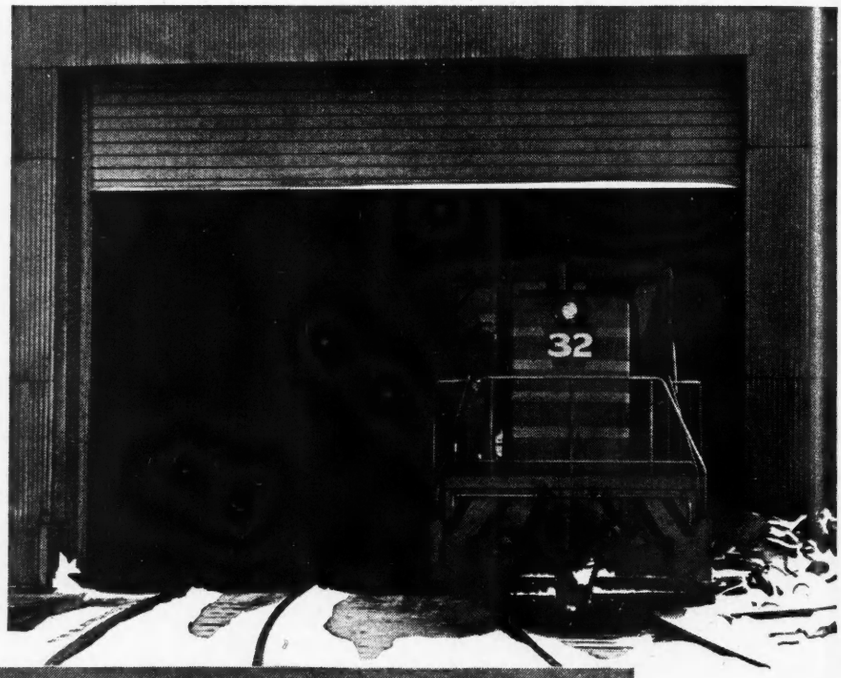


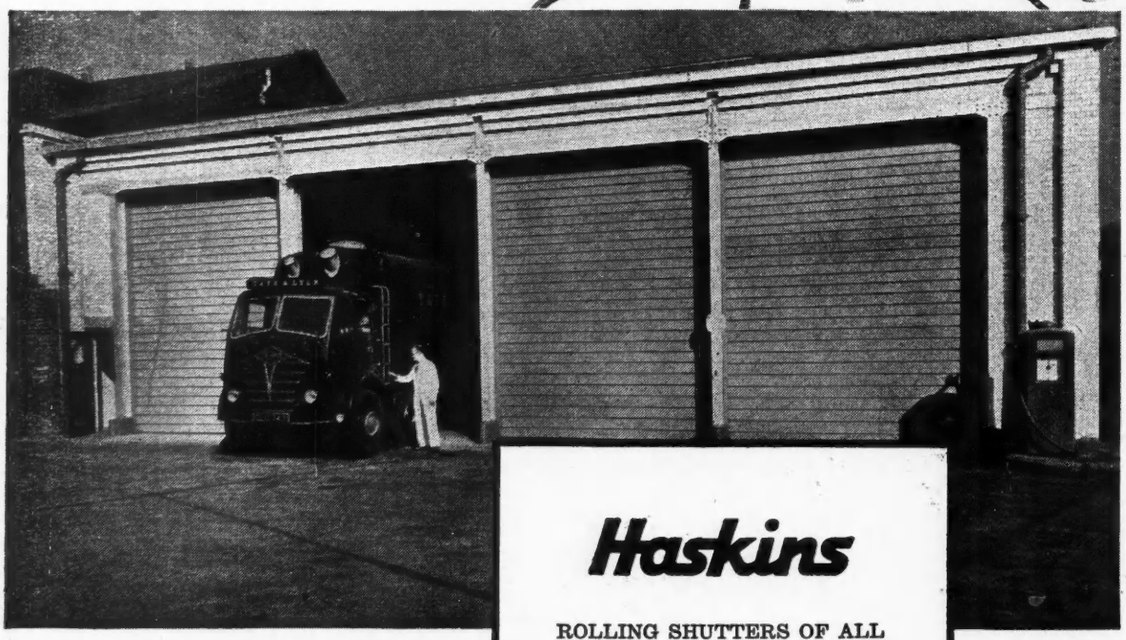

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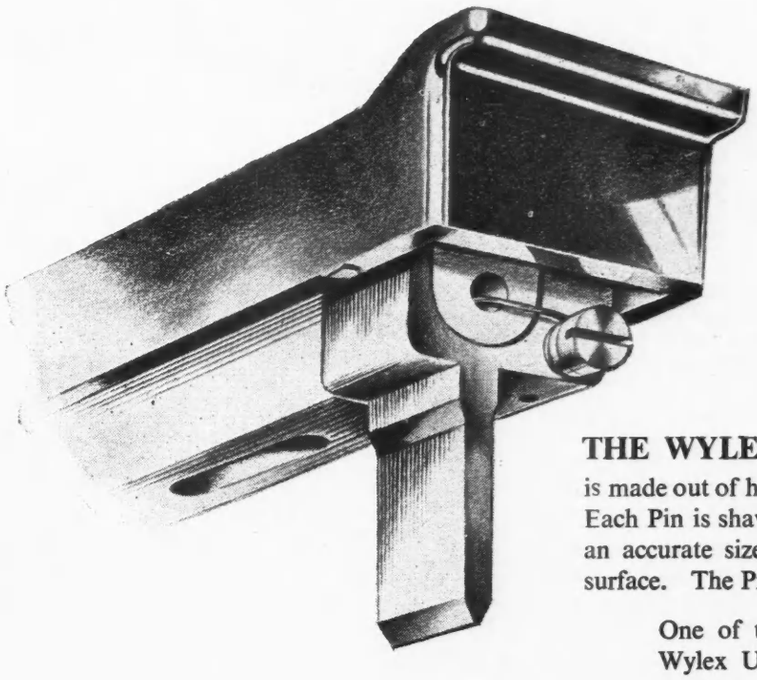

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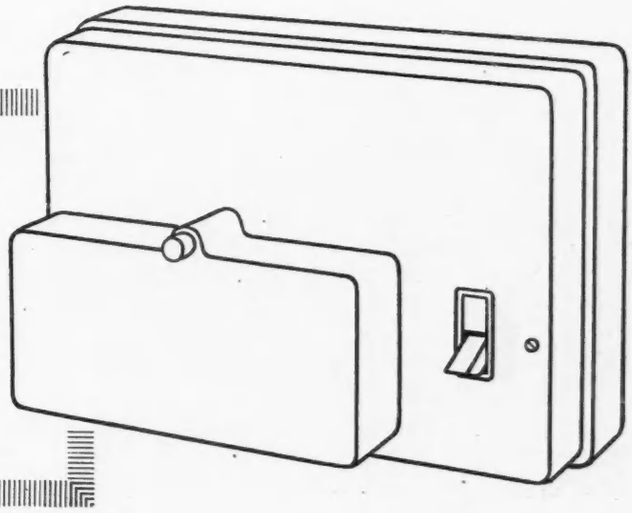

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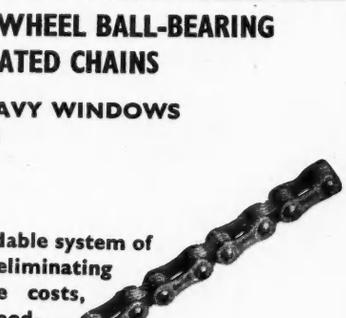

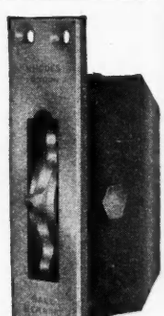

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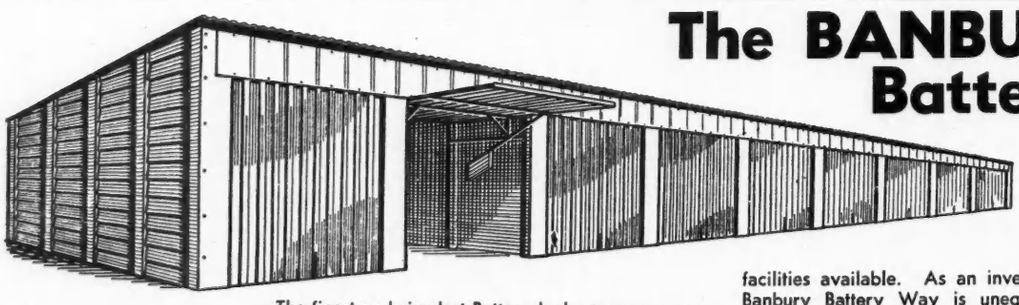

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### *HOW . . . . . and . . . . . WHY*

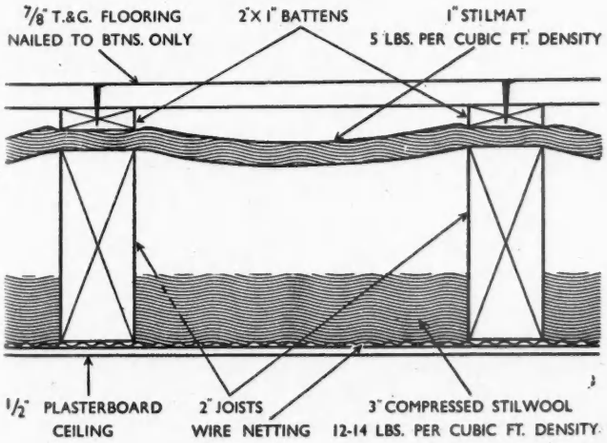
The need for adequate floor insulation to reduce noise transmission and fire-risk in multi-storey buildings is becoming widely recognised. The bye-laws of the Scottish Department of Health now insist upon it and other authorities may be expected to follow suit.

A thoroughly efficient, economical and easy-to-apply method of floor insulation is therefore essential, and the STILSOUND system has been developed to fulfil these requirements. It is a completely dry system, and one that can be readily and quickly applied to timber floors in both new construction and existing buildings. It affords the maximum efficiency in both thermal and acoustic insulation as well as proving a substantial fire barrier.

**Brief Specification**

The STILSOUND floor is a discontinuous structure based upon the principle of completely floating a normal wood floor on a resilient mat of mineral wool coupled with the "pugging" or close-packed insulation of the air spaces between wood joists, this pugging being retained in position by a wire mesh in case of the removal or damage of the ceiling board. This has been proved by conclusive tests to be by far the most efficient method of reducing structure-borne noise that would otherwise be conveyed from one storey to another via floorboards, joists and ceiling board. The inclusion of mineral wool "pugging" between joists further improves this effect to provide a sound-resistant barrier of first class efficiency. The installation is completely permanent, does not deteriorate or lose efficiency and requires no maintenance whatever. It is equally suitable for application to dwellings or public buildings.

Dry application speeds up work since all operations can be followed up in quick succession by the joiner without waiting for materials to dry. Also there is no fear of dampness, absorption, or conditions that can foster dry-rot.




The efficiency of the STILSOUND floor stems from the manner in which the two STILLITE insulants are combined in the construction, and from the equally important fact that each insulant is at the optimum weight and density for its purpose.

**STILWOOL** pelleted mineral fibre is for the purpose of deadening air-borne noise transmission due to the "diaphragm effect" of floor and ceiling. Correct weight and density of "pugging" is essential. STILWOOL is supplied at 8 lb./cu. ft., laid to approximately 3½ lb./sq. ft. and compressed to 12-14 lb./cu. ft. A lower density of insulation could not afford the same efficiency in this application.

**STILMAT** prevents the transmission of structure-borne noise by isolating the floor from the carrying members. In this application the insulation must not break down under normal floor loadings. The optimum density of STILMAT, 5 lb./cu. ft., provides adequate support without excessive compression, as the following table shows. A material having less strength and resilience would collapse, rendering the insulation useless.

**Table of compressibility**

**Test carried out on 1" Stillite Mat:**

| Load per square foot | Percentage reduction in thickness | Thickness at stated load | U* |
|---|---|---|---|
| 15 lb. | 20 | ·8" | 0·32 |
| 30 lb. | 32 | ·68" | 0·39 |
| 60 lb. | 40 | ·6" | 0·44 |
| 100 lb. | 48 | ·52" | 0·51 |

*U=Thermal transmittance "U" at stated compression in B.Th.U./ft²/hr/°F at 55°F mean temperature.

**Physical Properties of STILLITE**

STILLITE mineral wool—the basis of both STILWOOL and STILMAT—is absolutely fireproof. The STILSOUND floor therefore provides a valuable barrier against passage of fire from one storey to another.

STILLITE is non-deteriorating. It maintains its natural resilience and insulation efficiency indefinitely and needs no replacement.

STILLITE is inorganic and chemically inert. Odourless, it will not support vermin or bacteria, and does not cause corrosion or decay. It is non-hydroscopic.

*Full technical details of the STILSOUND Floor will be sent on request.*

**STILWOOL and STILMAT are two of the STILLITE Range of Mineral Fibre Building Insulants**

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*Scottish enquiries may be addressed to:*
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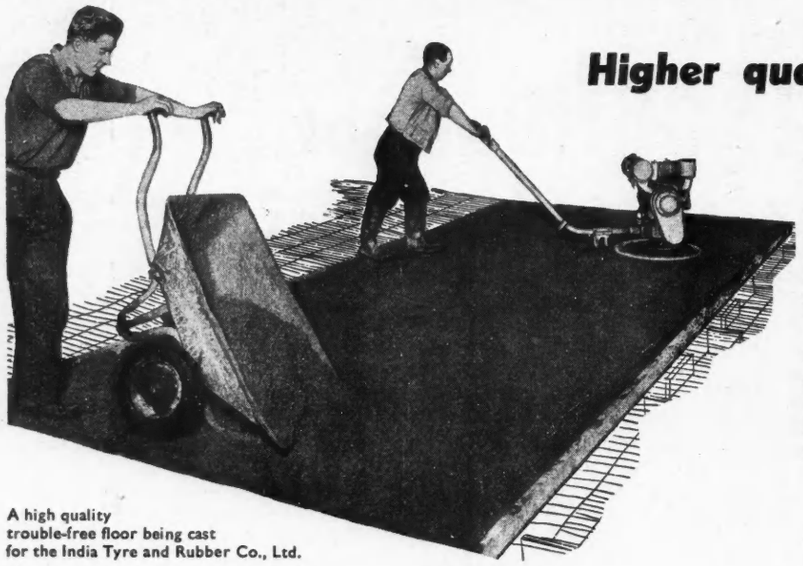

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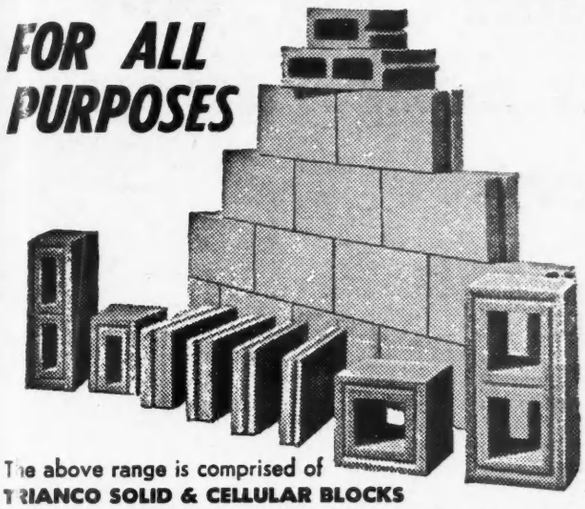

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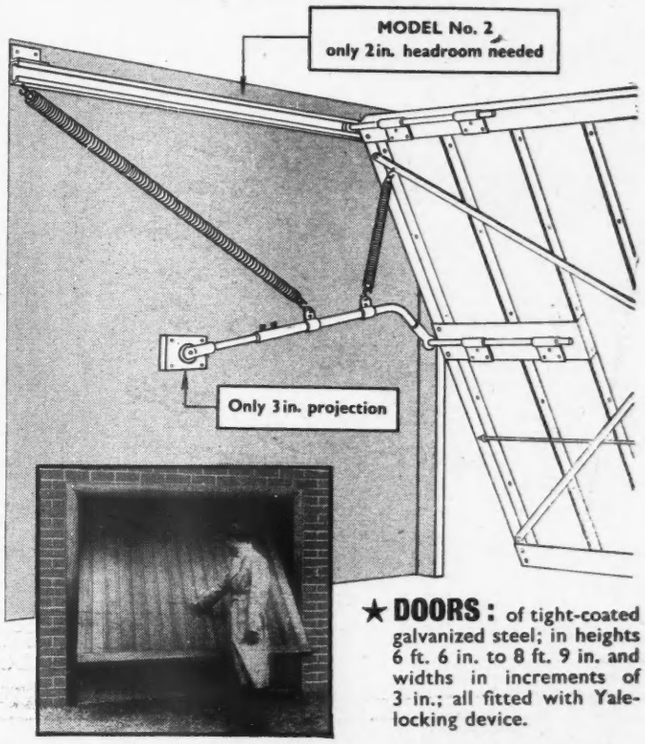


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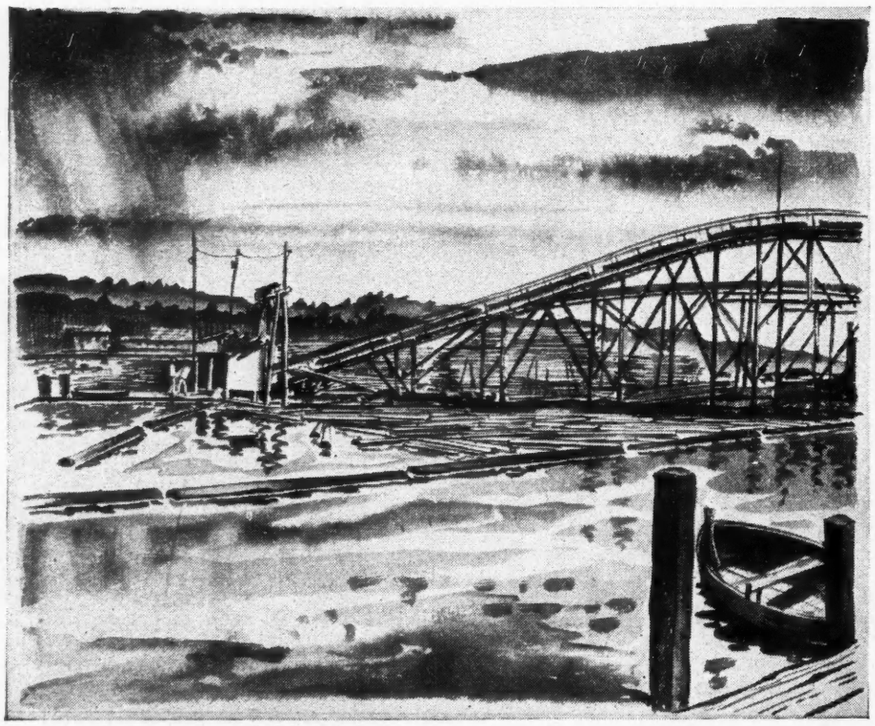

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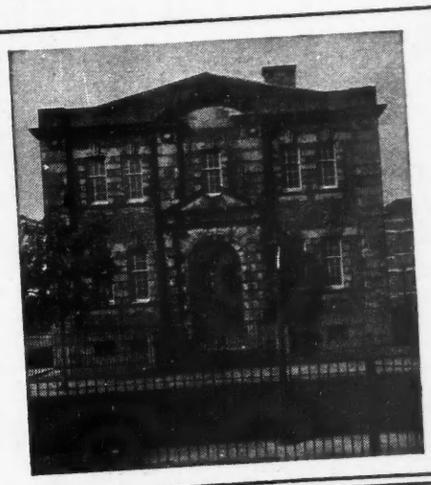

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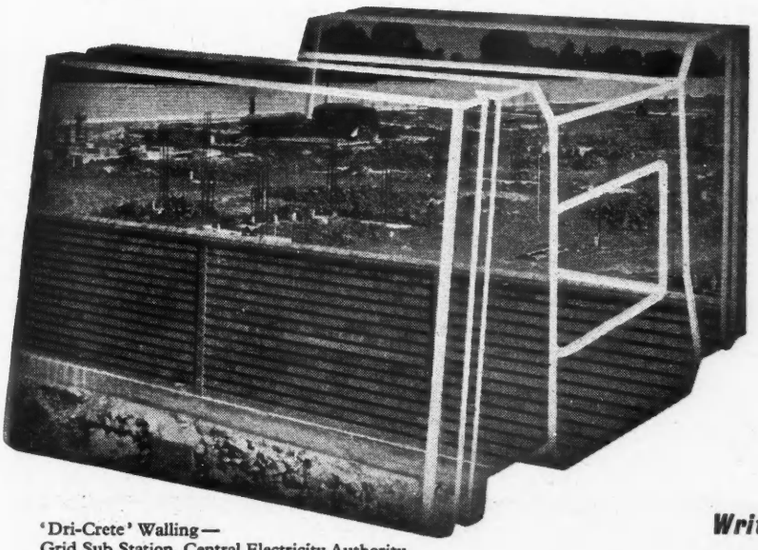

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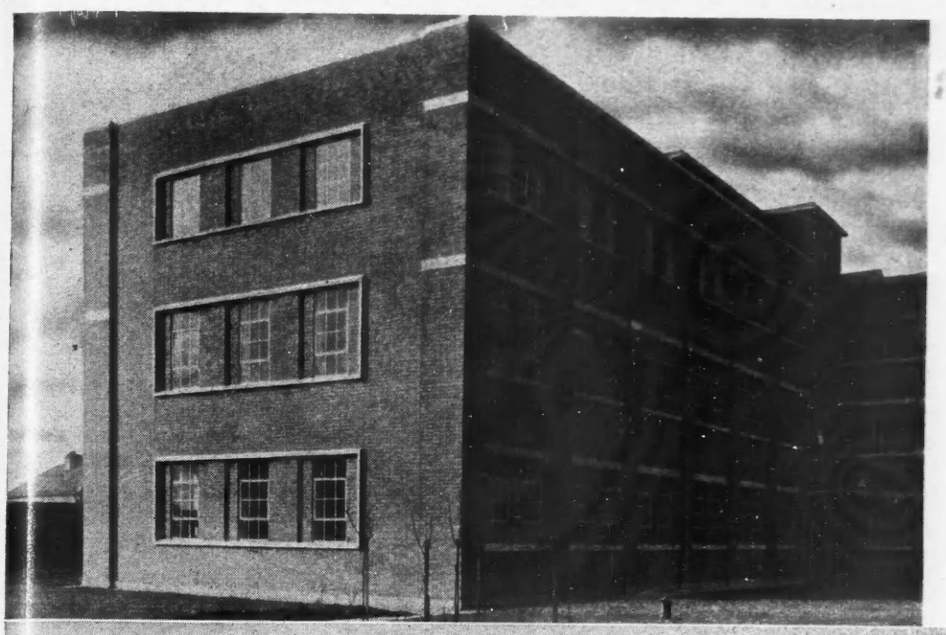
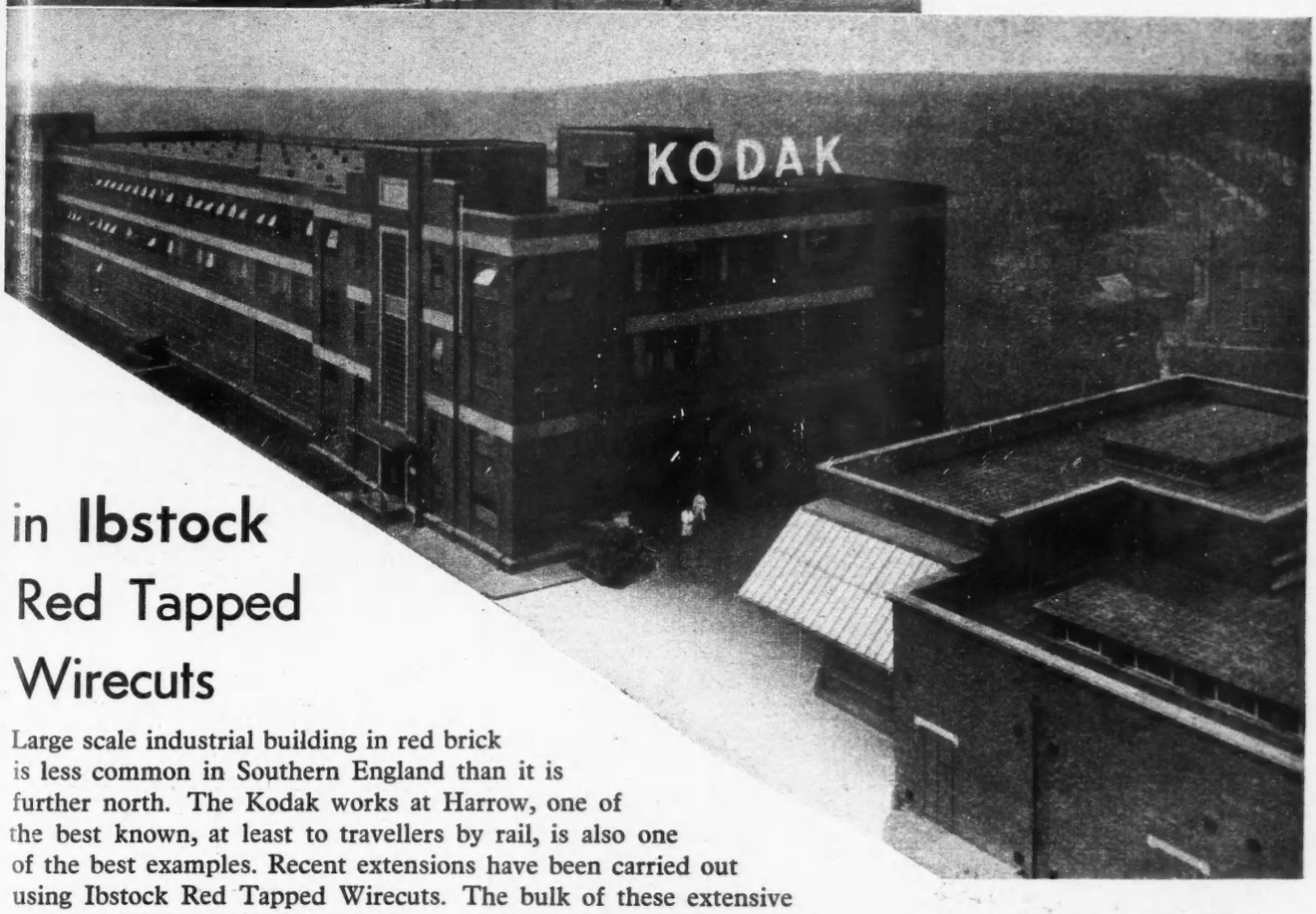


# 'Extensions at the Kodak Works, Harrow




## in Ibstock Red Tapped Wirecuts

Large scale industrial building in red brick is less common in Southern England than it is further north. The Kodak works at Harrow, one of the best known, at least to travellers by rail, is also one of the best examples. Recent extensions have been carried out using Ibstock Red Tapped Wirecuts. The bulk of these extensive works is faced with Ibstock bricks.

*Architects for Research Laboratory extension (Top illustration): T. P. Bennett & Son. Contractors: Kirk & Kirk Ltd.*

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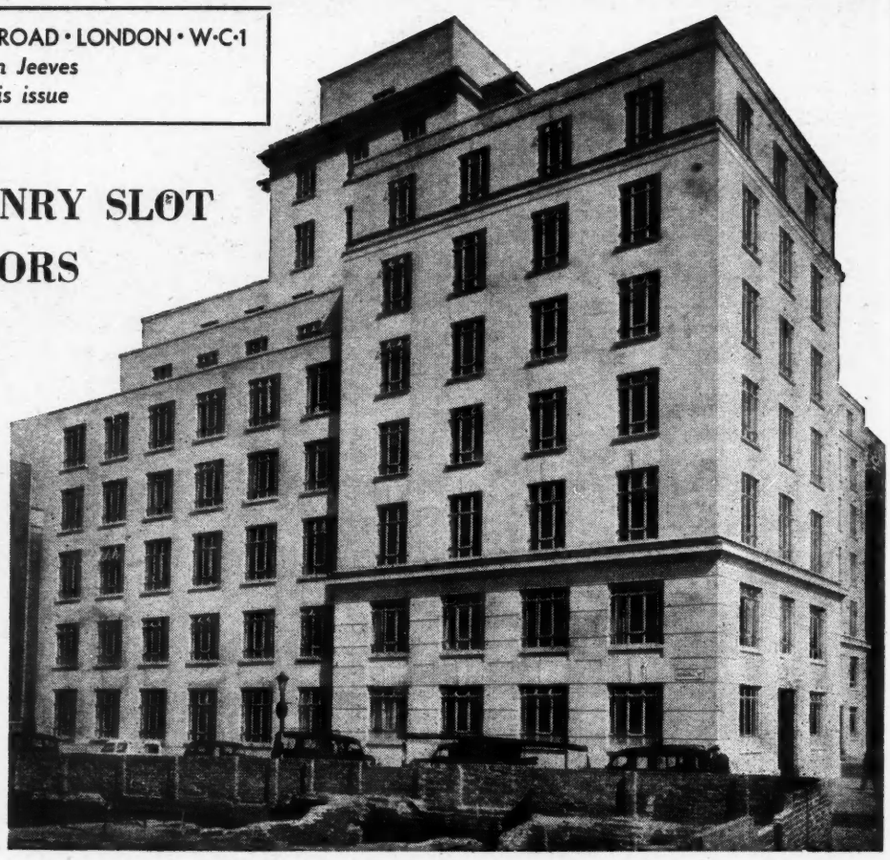

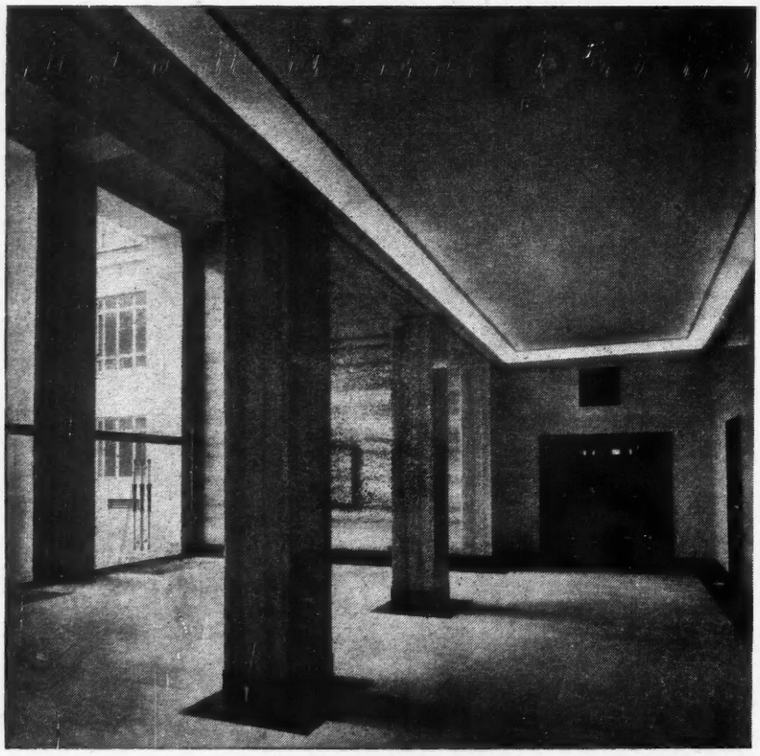

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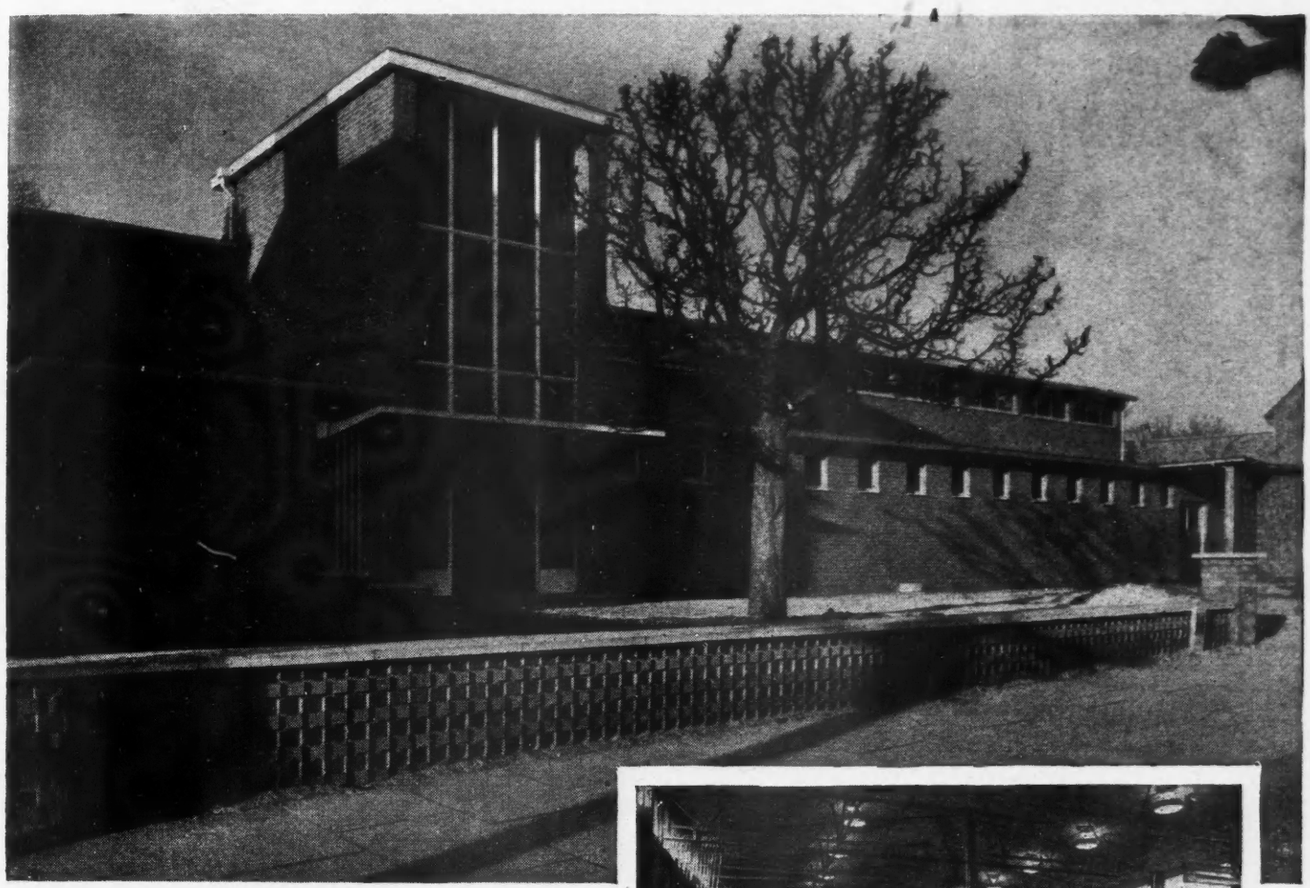

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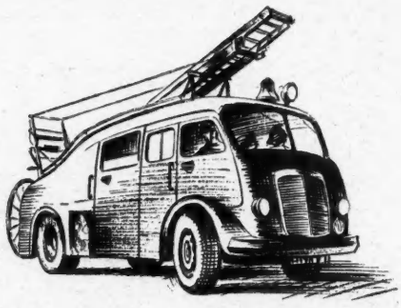

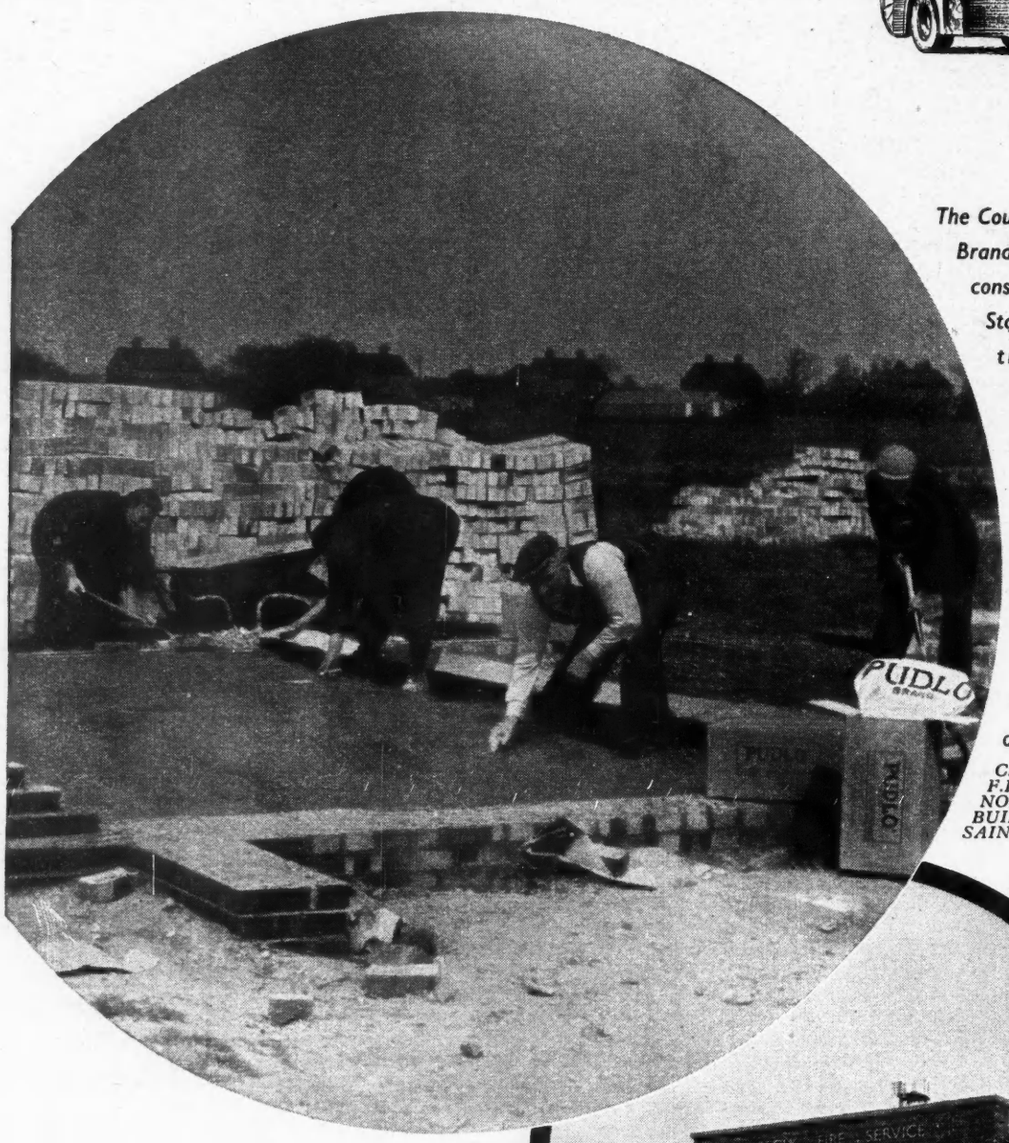


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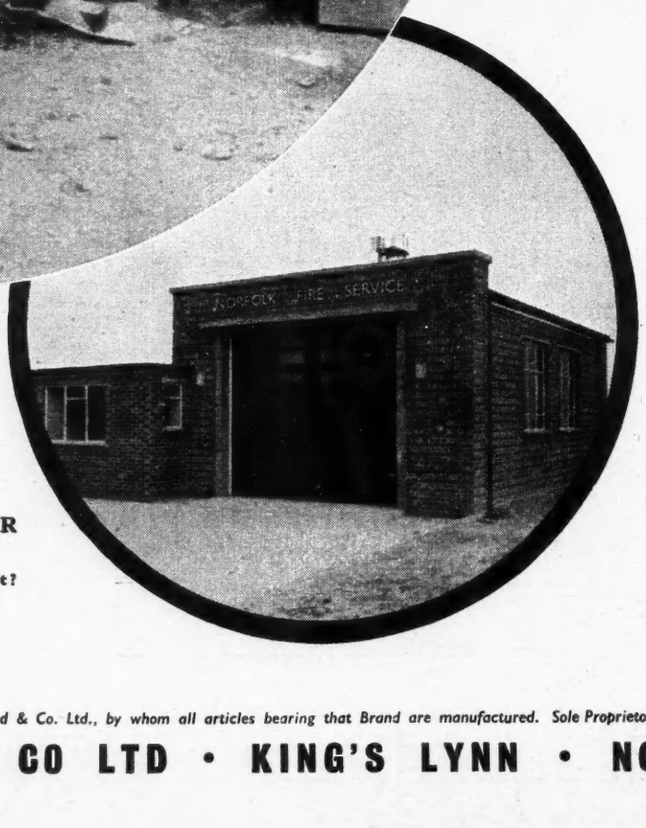


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## NEWS SUMMARY

*MR. BASIL SPENCE is the new hon. Secretary, RIBA.* p. 63

*MR. S. A. W. JOHNSON-MARSHALL has resigned as Chief Architect, Ministry of Education.* p. 63

*BASIL MARRIOTT reviews the Coventry stained glass.* p. 64

*BUILDING CONTROLS were again advocated in the Commons by Mr. Wilson, supported by Sir Robert Boothby.* p. 67

*FOUR TRADE ASSOCIATIONS had, by the end of June, informed the Government of their members' intention not to increase prices.* p. 68

*THE NUMBER of households without a piped water supply has been halved in the last five years, Mr. Enoch Powell has stated.* p. 69

*CRITICISM of the Cromwell-road extension has been made by the British Road Federation.* p. 70

*LARGE BUILDING SCHEMES are proposed for Malaya.* p. 83

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## *THE FINANCIAL CRISIS AND THE COUNTRY ARCHITECT*

ARCHITECTS in country practice who are old enough to remember the slump of 1931 felt a chill wind of memory when the Chancellor determined to impose severe restrictions upon credit, for there is no industry which makes greater use of credit than does the building industry. Comparatively few would build at all without borrowing at some stage and to some extent, and very few builders would be able to enter upon large contracts without the knowledge that the banks are behind them until the first certificates are met.

History often appears about to repeat itself, though rarely does it cover the same ground twice; but it may be well to glance back at that previous year of crisis to see how far it is likely to throw light on our present position. Mr. Snowdon's Crisis Budget was a severe one and imposed great sacrifices upon all classes of the community. It made heavy cuts in the salaries of many government-paid workers; it put a stopper upon most public works; and it made full use of the credit squeeze. The very severity of the measures taken had the result of limiting the period of crisis to a very short period, and within a year prosperity was returning. But the situation was a favourable one for a strong man to take strong measures. His Government was newly appointed for this specific task, and it followed a Labour Government, largely discredited. The workers were mindful of numerous great strikes which had failed, leaving the union funds much depleted. None of them had ever experienced full employment in peace time. A Chancellor could risk much under such conditions.

To-day presents a very different picture, for the Government itself is somewhat under a cloud, and neither wage earner nor salaried official is in the mood to give up the gains made during and since the War. Strikes would be disastrous at such a time as this, and the Chancellor must exercise very great ingenuity if he is to devise a policy that will achieve his purposes without stirring up labour troubles. Credit restriction has a way of operating in a fairly flexible manner, and although it has already produced some ominous results in the Midlands, it has as yet produced little perceptible effect upon the building industry in some country districts.

Pressure upon the industry has been very great for many years, and the customers clamouring in the queue have been many more than those who have yet gained service from it. There are thus fresh classes to fill the gaps as soon as one class is squeezed out. The pure speculator is feeling the pinch keenly, but there are still sufficient individuals and firms with the cash to go forward with their building schemes, and the average country builder feels no let-up in the pressure upon his limited resources. In fact, there seems to be something of a minor boom in some places, brought about by the people who have these facilities and are hurrying to carry their plans into effect before fresh restrictions are imposed to stop them.

For the most part, then, the country architect is not having at all a bad time. But he will be wise if he uses his good fortune to build up reserves with which to weather the storms ahead, for it can be taken as a certainty that if capital expenditure is not handsomely reduced, measures of greater severity will be taken to achieve this end, without which the country cannot hope to balance its books.

# Notes of the Week

### *Official into Private*

THE latest architect to leave official ranks to go into private practice is Mr. Stirrat Johnson-Marshall, who tomorrow, July 14, retires from the post of Chief Architect to the Ministry of Education. He thus follows Dr. J. Leslie Martin, who is leaving the London County Council to become Professor of the first Chair of Architecture in the University of Cambridge, a post which he will combine with private practice. Dr. Martin, of course, succeeded another Architect to the Council, Dr. Robert Matthew, who left in 1953 to occupy a teaching post at Edinburgh University, from which he has now retired to devote himself entirely to his practice.

There need be no undue speculation about the reasons which are causing some of our more eminent architects in official posts to take this step. Comparable earnings are probably not the primary reason, though the gross earnings of even a moderately successful architect in practice would greatly exceed even the £4,500 a year which the LCC offers to its Architect. More likely is it that the administrative load which bears upon the chief of an important Government or local government architectural department has the effect of reducing to almost negligible proportions the time he can spare to devote to his chosen profession of designing buildings.

To find an answer to this is one of the more difficult problems now facing local and central government. The answer does not lie in selecting for an important post a chief who is primarily an administrator and only incidentally an architect. Not only does the importance and volume of official architecture today make it most necessary that it should be designed under the control of sensitive and competent heads, but it is an undoubted fact that architectural assistants will not now apply for posts in departments which, rightly or wrongly, have no reputation for design.

The London County Council must now be doing some hard thinking. Three changes of Architect within four years must be unsettling, to put it at its lowest. They have been fortunate in their new appointment to the post of Mr. Hubert Bennett, who unites in an unusual degree the qualities of designer and administrator. It is surprising, however, that the Council has not taken the opportunity provided by the change to divide the responsibilities which they place of being both Architect and Superintendent of Metropolitan Buildings. The latter post, dealing with statutory provisions and by-laws, is one purely administrative in its scope, and one which it would seem quite unnecessary to add to the burdens carried by any official responsible for an output of new buildings as large as London's.

### *Cardiff's City Architect*

CARDIFF is to be congratulated on its Corporation's decision to appoint a City Architect. The Welsh capital has for many years been almost alone among great cities in being without a City Architect; this deficiency is now to be remedied, and a salary of £2,630 per annum has been fixed for the post.

Less open to congratulation is the Corporation's decision to endorse a recommendation that the Architect should work under the City Surveyor's supervision, being responsible for the architectural and quantity surveying sections of the City Surveyor's department. Architecture, as a creative art, can be best produced in a department responsible only to an architect head. It is not a question of "working as colleagues" as one of the councillors has somewhat naively said, but of the conditions under which an art can best flourish. We shall hope that Cardiff, now that it has taken the first important step, will see that it is a step forward and not merely to the side.

### *Duality at Swansea*

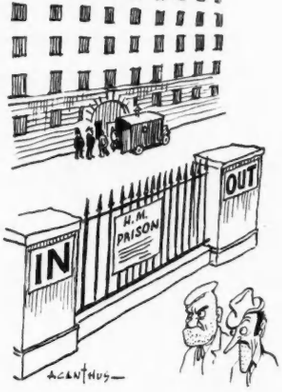
IF THERE IS a strong case for allowing an official architect to be in complete charge of his own department, is there an equal case for keeping him free from the authority's works department, where such exists? A discussion at the meeting on July 4 of Swansea Corporation has led to a decision to refer to a standing subcommittee a motion that the Central Works Department be separated from that of the Borough Architect. The Councillor who raised the matter thought that it was "undesirable that the architect should also be the contractor," and another speaker said that "under the present set-up the Architect plans and then criticises his own work on behalf of the customer."

This sort of position is anomalous, as the Chairman (Cllr. O. J. Thomas) pointed out. There was, he said, no reflection on the Architect but the committee which had been considering the matter felt that the Architect should be in an independent position where he could fight the contractor and get from him the best in the interests of the client.

There is a point here in common with Swansea's neighbour Cardiff—that independence is the key to architecture, whether public or private. The design of buildings today is, of itself, a sufficiently important job to justify leaving an official architect untrammelled either by being placed under a superior but non-architectural officer or by off-loading on him responsibility for a building department.

### *Rebuilding the City*

IT IS GOOD to find a popular magazine dealing intelligently and objectively with the rebuilding of the City. In the current number of "John Bull" (July 7), Mr. John Ennis, in an article entitled "Storm over London," tells very readably the story of the controversy that has raged over the various plans and proposals since the end of the war, and especially since Sir David Eccles made his startling pronouncement about "fat and familiar, mediocre and characterless neo-Georgian architecture rising from Hitler's ruins to betray the confident spirit of the new reign." The article, accompanied by photographic illustrations, one page being excellently reproduced in colour, concludes on the cautionary note that the new face of the City is unlikely to satisfy anybody entirely, "only one thing is certain: the clash of opinion will continue to make at least as much noise as the bulldozers."




*** The Home Secretary announced last week that the prison building programme (the subject of a special article in this issue) is to be cut.—ED.

### *Truro Journal*

PRINTED on glossy art paper the Journal of Proceedings for 1956 of the Truro Branch of the Devon and Cornwall Society of Architects has just been published. While mainly of interest to architects of Cornwall the Journal should also be seen elsewhere: it is full of useful information about the county. As well as the reports of the various officers, seven pages have been devoted to work of architectural interest carried out by some of the members. The students' section of the branch is very active and some designs by them for an architecture stand at a careers exhibition held at Truro are illustrated.

### *Thames Barge Match*

THE ANNUAL Thames Barge Match was held at Gravesend on July 3. There were once many hundreds of these barges on the river and between the wars there were many entries for the Thames and Medway Barge Matches. This year, however, only six representatives of the famous craft were entered, three in each class. Firms which have a traditional connection with the river still keep their sailing barges in trim for the race. This year it was won by F. W. Everard's *Veronica* which had been reconditioned especially for the race after lying unused for 10 years on the foreshore at Greenhithe.

*Westmoreland*, belonging to Eastwoods, Limited, came second in her event and also gained the seamanship prizes, the Owners' and Masters' cups for the first barge over the starting line, and a further cup for the best display of seamanship in rounding the turning mark. Mr. George Miller, chairman of Eastwoods, and founder-president of the Sailing Barge Preservation Society, is leading a movement to ensure that these craft do not disappear from the Thames and the south-east coast of Britain.

## CORRESPONDENCE

### *Planning Principles in Conflict*

To the Editor of *The Builder.*

SIR,—Your recent leading article entitled "Farewell the Axis" set me wondering whether the long drawn-out dispute between the formal and the informal schools of planners is likely to be settled in our time. The revised design for the Imperial College, published in your last issue, increases my doubts.

When Messrs. Norman and Dawbarn's original design was published a few months ago, one or two of our professional critics, not normally very well disposed towards axial planning, were prompt to point out that it perpetuated the cross axis principle of development which characterises the whole of this great educational area, whereas it should have done something at least to open up the longitudinal "hidden axis," of which there is a rudimentary beginning on the south side of the Albert Hall.

I note that, according to the article in your last issue accompanying the revised design, the architects believe that "whilst it would be wrong to divide the scheme into two halves and leave the axis of the Albert Hall and the Tower [of the Collcutt building] entirely open, it would be desirable to cross this axis only with reasonably low blocks."

Why, in that case, one may ask, have an axis at all? One would have thought than an uninterrupted view between the Albert Hall and the Tower would be something to strive for because of the splendour of its effect. One assumes, of course, that the space between the buildings would be preserved as a pedestrian precinct, and therefore the division of the scheme (which is markedly of precinctual character), would not be a serious drawback.

It seems to me that the profession will have to do some hard fundamental thinking on this question of formal *v.* informal planning and come to some agreement about principles; otherwise our era, which offers immense scope for redevelopment, will appear to future generations as one of indecision and compromise.

I should be interested to know whether anything is being done by the RIBA or the Town Planning Institute to clarify and, if possible, settle this peculiar conflict among the planners. Are we to be largely denied the visual stimulus of the axial vista and condemned for the rest of our days to pottering about the often perplexing penetralia of pedestrian precincts? For myself, I like both the precinct and the axial vista; why do so many of our planners and critics seem to regard them as incompatible?

I must apologise for using Imperial College as a peg to hang my grumble on. The architects, of course, are to be congratulated on the successful way in which they have revised their scheme to incorporate the Collcutt Tower. My point is, would it not be wise to plan now as fully as possible for the ultimate opening-up of this major axis?

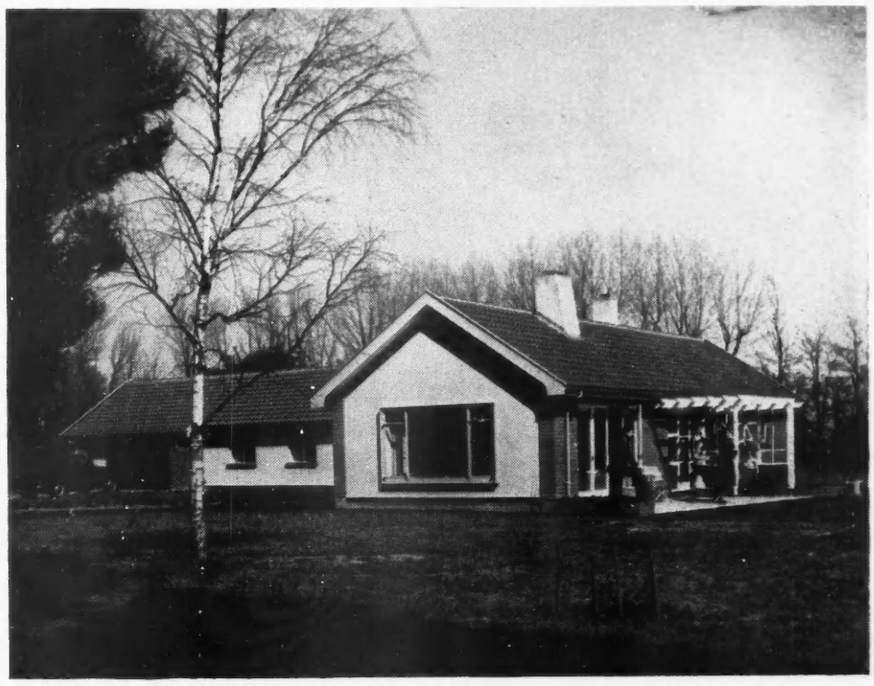
PUZZLED.

## *Bungalow at Oulton Broad*

***Architects:* SKIPPER AND PARTNERS**

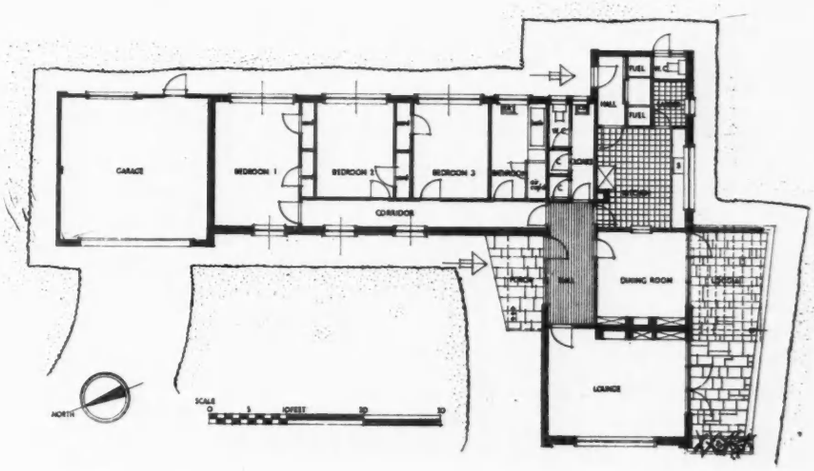
***Quantity Surveyors:* ASHFORD, TROWER & WALLER**

***Builders:* HARVEY & LEACH, LTD.**

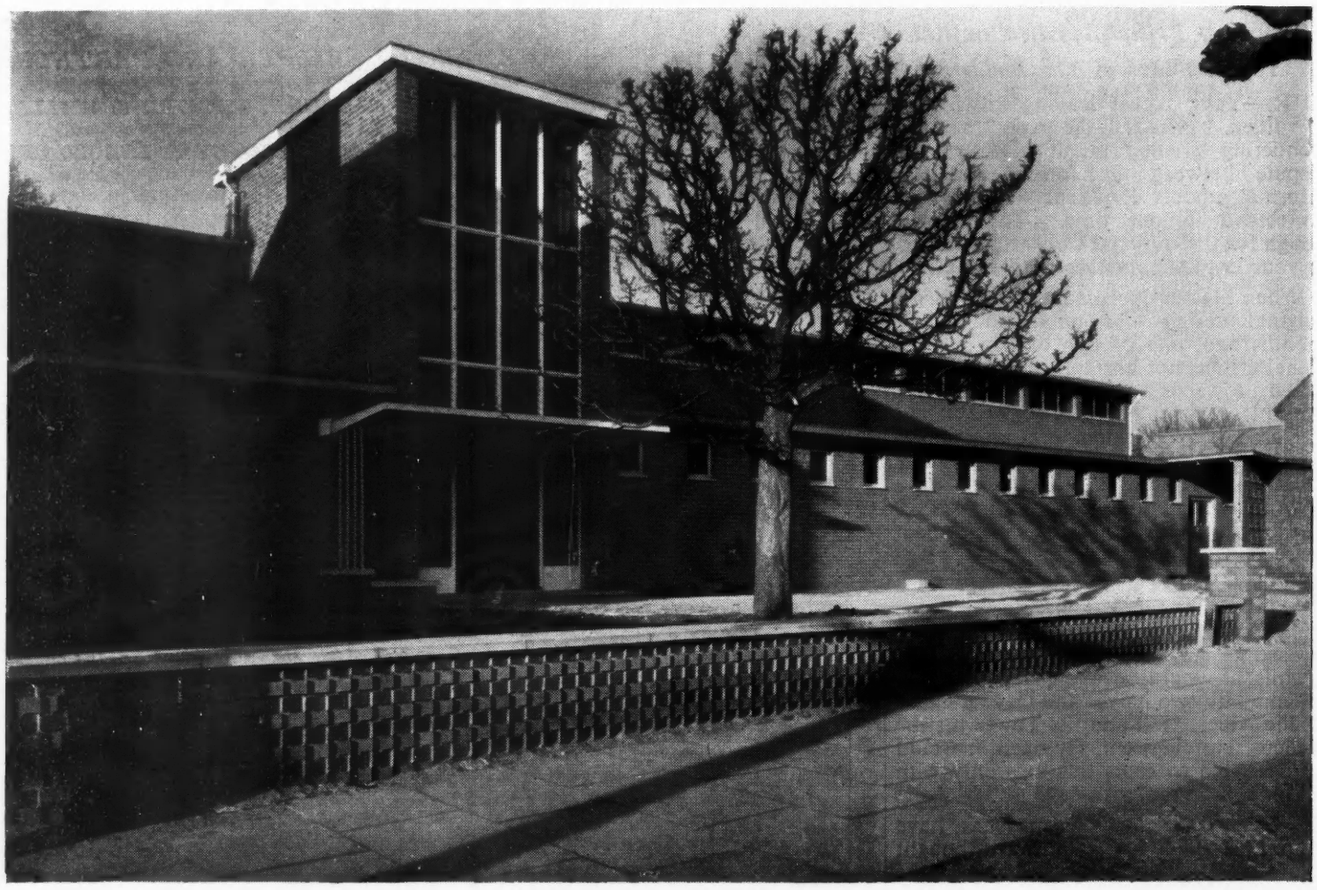


*From the west.*

The site of this bungalow, at Oulton Broad, in Suffolk, has a subsoil of heavy blue clay. Consequently, foundations had to be taken down to a depth of seven feet and well spread and reinforced. The site is a large one, well treed and level, facts that are reflected in the generous planning, which also contributed to reducing the load on the ground. Sub-contractors and suppliers include: Heating, A. Pank and So., Ltd.; electrical, Lowestoft Electrical, Ltd.; facing bricks, Ibstock through Builder's Direct Supply Co.; roof tiles, Marley; driveway, East Anglian Roadstone and Transport Co.; joinery, H. R. Middleston; and sanitary equipment, R. J. Pryce and Co.




*Plan.*

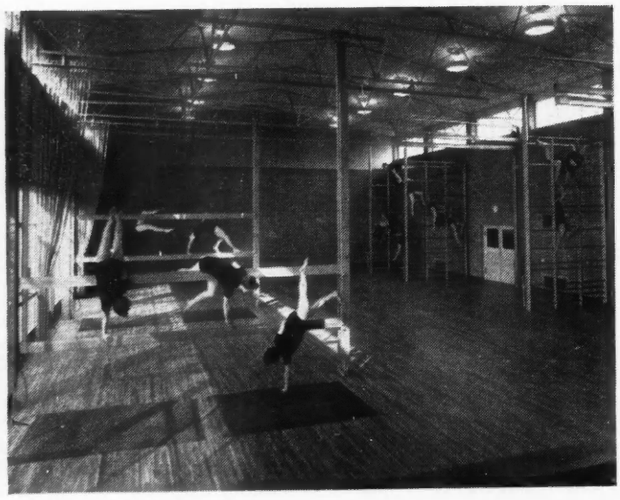


# GYMNASIUM, BEDFORD COLLEGE OF PHYSICAL EDUCATION

## *Bedfordshire County Council*

*S. VINCENT GOODMAN, FRIBA*
*County Architect*

*LINDUM (LINCOLN), Ltd.*
*Builders*



STUDENTS at Bedford College of Physical Education are now enjoying the facilities of their new gymnasium which has been available to them since January of this year. The building has been planned in accordance with the modern conception of physical education.

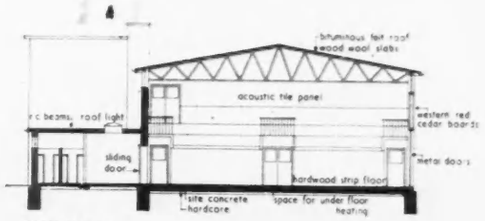
Accommodation includes a spectators' gallery with storage space for chairs below, a jumping pit filled with sorbo-rubber pieces that is concealed when not in use by folding floor panels, changing-rooms, showers, and equipment store. Incorporated in the building is a biology laboratory with art-room above.

The floor of the gymnasium is made of narrow strips of Loliondo hardwood laid crosswise on a seating of rubber pads for greater resilience. There is a specially designed system of convection heating below the floor-boards that warms the floor. The installation of a thermostatically controlled heating plant and a well ventilated atmosphere ensure the best possible training conditions for the teaching of movement. Acoustic tiles have been used in the structure of roof and walls to eliminate echo and the noise of movement.

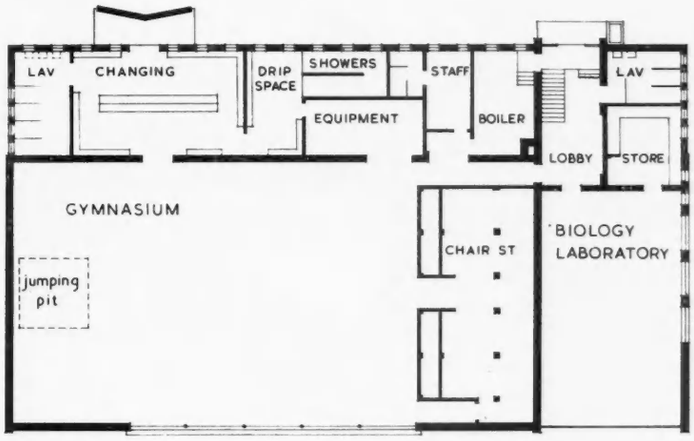
Roof trusses are of tubular steel, internal facing bricks are Lilac Grey Sandstone. External facings are Ibstock Buff and Dusted Purple Rustics, metal casements have been used and the roof construction consists of Thermacoust channel-reinforced slabs covered with Green bituminous roofing felt.

## Sub-contractors and suppliers:

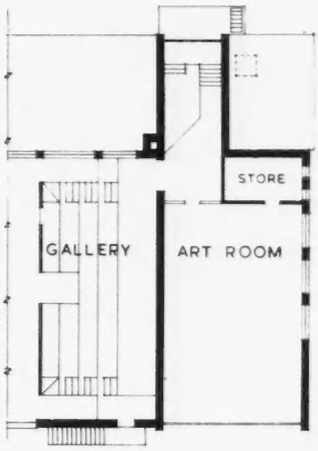
Tubular steelwork, Messrs. Tubewrights, Ltd.; prestressed concrete beams, Messrs. Concrete, Ltd., Messrs. Dow-Mac (Products, Ltd.); concrete reinforcement, Messrs. Twisteel Reinforcement, Ltd.; bituminous felt roofing, The Bedford Asphalte Co., Ltd.; dome lights, Messrs. T. and W. Ide, Ltd.; hardwood flooring, Messrs. Horsley Smith and Co. (Hayes), Ltd.; floor tiles (Accotile), Messrs. Rowan and Boden, Ltd.; heating installation, Messrs. C. S. Thompson (Letchworth), Ltd.; electrical installation, Mr. R. Clark (Barton); acoustic treatment, Messrs. Horace W. Cullum and Co., Ltd.; laboratory fittings, Messrs. Baird and Tatlock (London), Ltd.; art room fittings, Mr. R. V. Yoxen (Bedford); ironmongery, Messrs. Dryad Metal Works, Ltd.; cloakroom fittings, Messrs. Parker, Winder and Achurch, Ltd.; cubicle partitions, Messrs. Venesta, Ltd.



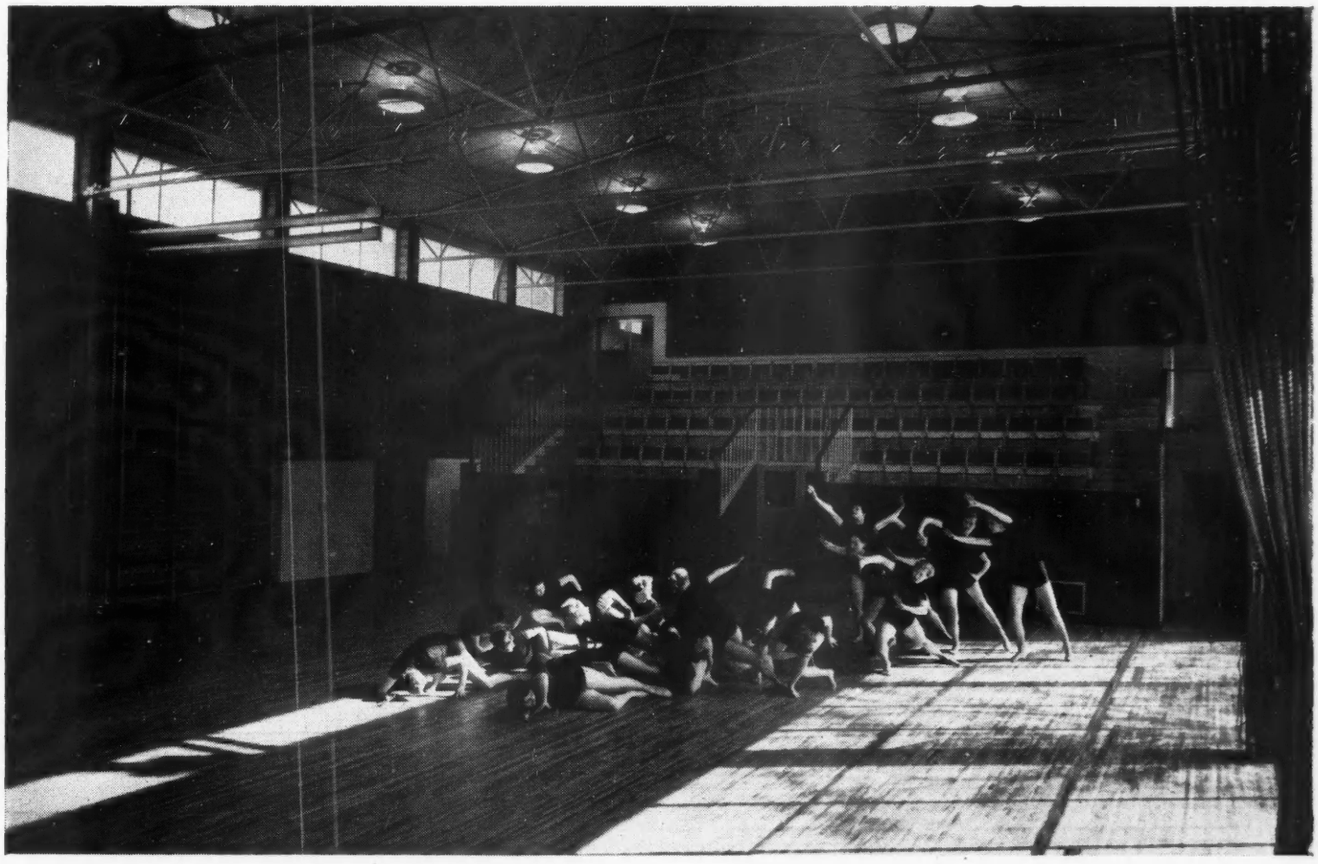
CROSS SECTION

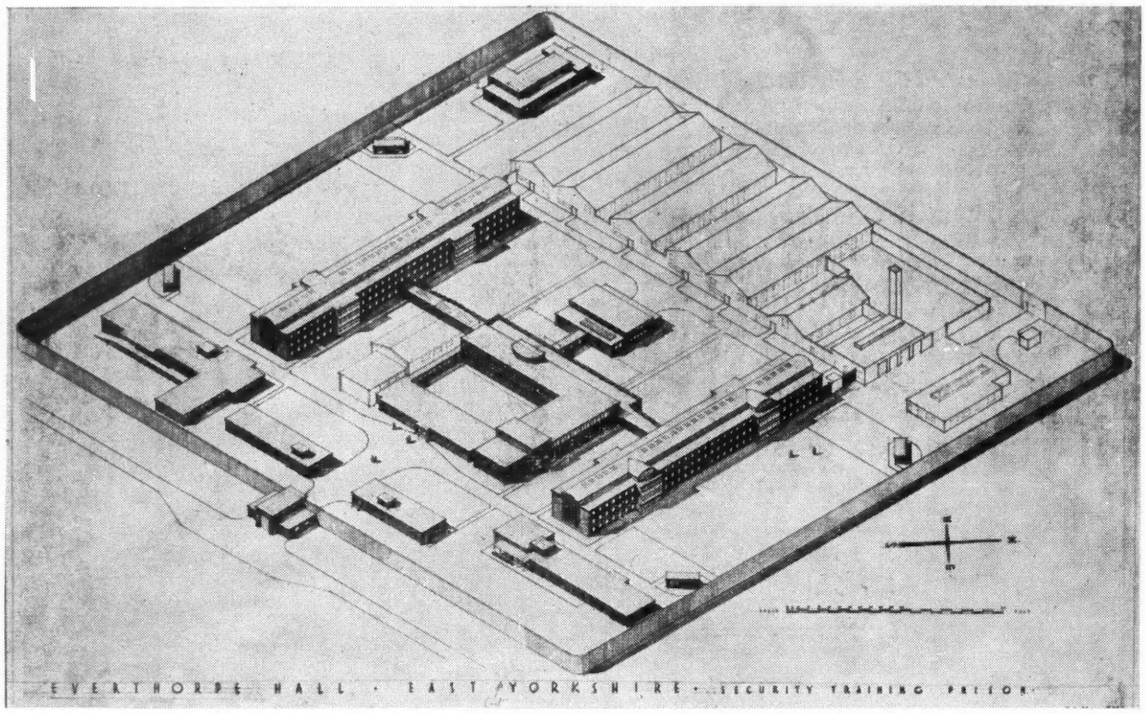


GROUND FLOOR



FIRST FLOOR



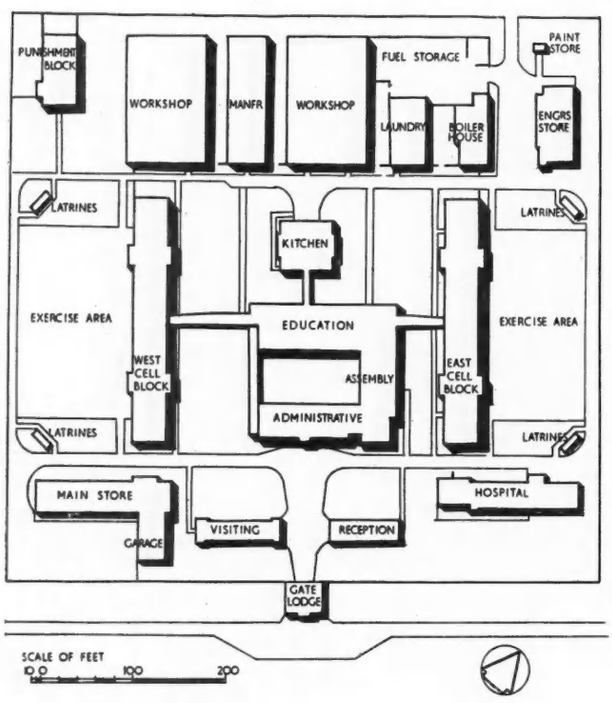



*Everthorpe Hall : Isometric view.*

# *PRISON AND BORSTAL BUILDING PROGRAMME*

## *for HM Prison Commissioners*

***Design and construction of the buildings are in the hands of the Chief Architect of the Ministry of Works, MR. E. BEDFORD, CVO, ARIBA, and the Senior Architect responsible is MR. N. HINWOOD, MM, ARIBA, in consultation with the Director of Works of the Prison Commission, Lt.-Col. S. P. SARTAIN, FRIBA, and the Senior Architect of the Prison Commission, Mr. E. CRUDDAS, FIAA. The contractors for the Everthorpe buildings are Messrs. F. Shepherd and Son, Ltd.***




*Everthorpe Hall : Block plan.*

THE Prison Commissioners for England and Wales have been engaged, since the end of the war, on a large programme of works, not only to provide additional accommodation for prisoners and Borstal inmates, either by new establishments or by increasing accommodation within the existing confines, but also to provide improvements to the standard of existing accommodation, much of which was built 100 years ago or earlier. This programme has been dictated by three factors:

(1) The abnormal post-war rise in prison and Borstal population;

(2) The advent of the Criminal Justice Act of 1948, which required the Commissioners to provide certain new types of establishments, such as Detention Centres for young offenders, and (3) The policy of the Commissioners to provide open prisons " without bars," as a means

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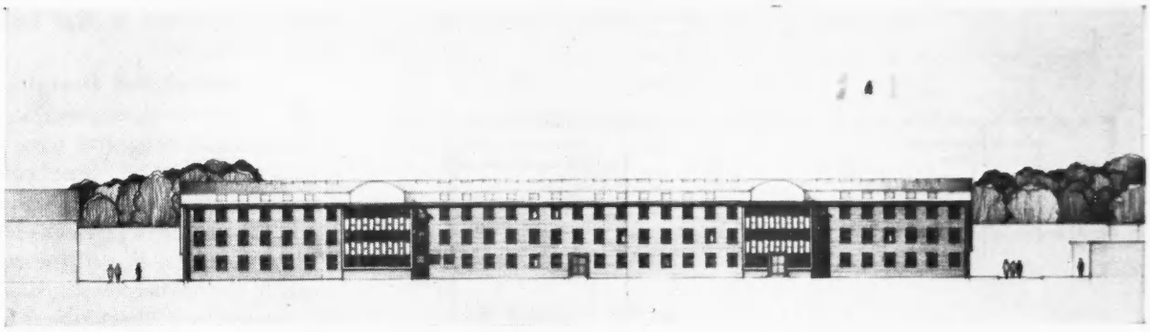
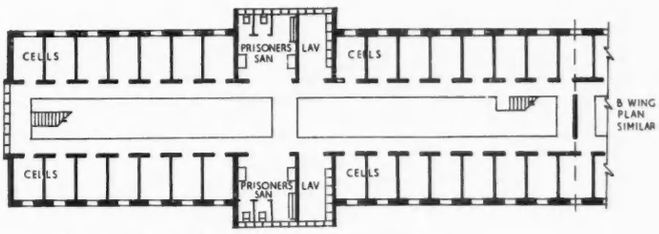
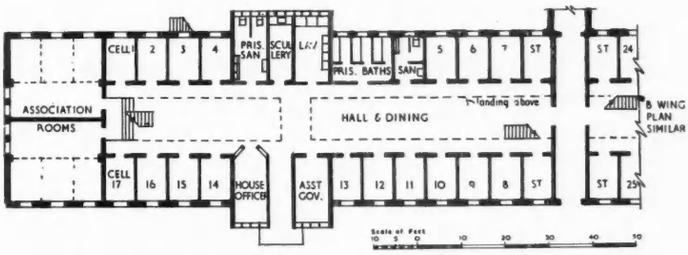


*Everthorpe Hall : Composite elevations of cell block, having N and S sides.*




*West cell block, " A " Wing, second floor.*



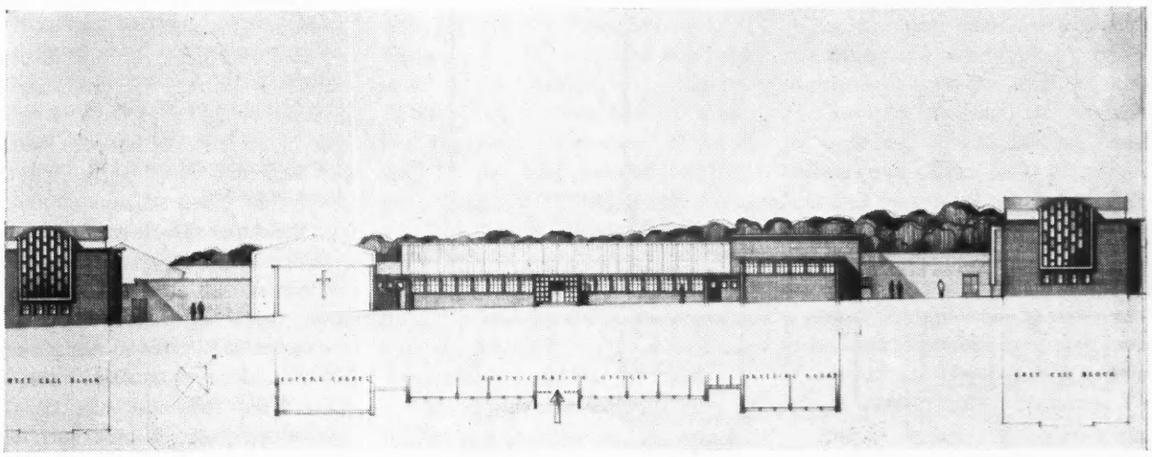

*West cell block, "A" Wing, ground floor.*

" The purpose of training and treatment of convicted prisoners, shall be to establish in them the will to lead a good and useful life on discharge, and to fit them to do so."

The works programme carried out and proposed, is a logical sequence of this rule.

It is of interest to note that at the end of the war in 1945 there were 39 penal establishments in England and Wales, and now in 1956 there are no fewer than 70, with five satellite camps.

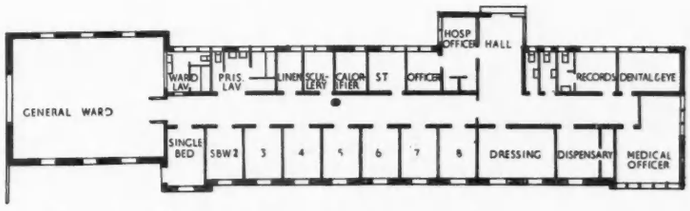
All these additional establishments have been acquired by the adaptation of institutional buildings, country mansions, war-time camps of the more permanent type, coastal



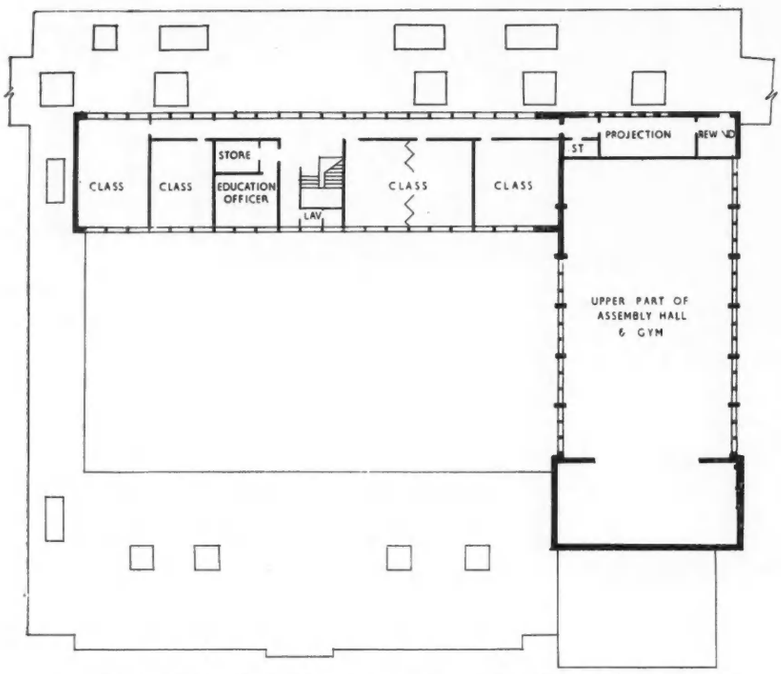
*Everthorpe Hall : SE elevations of administration block and cell block.*

of rehabilitating prisoners likely to respond to such conditions, as opposed to incarceration in closed establishments.

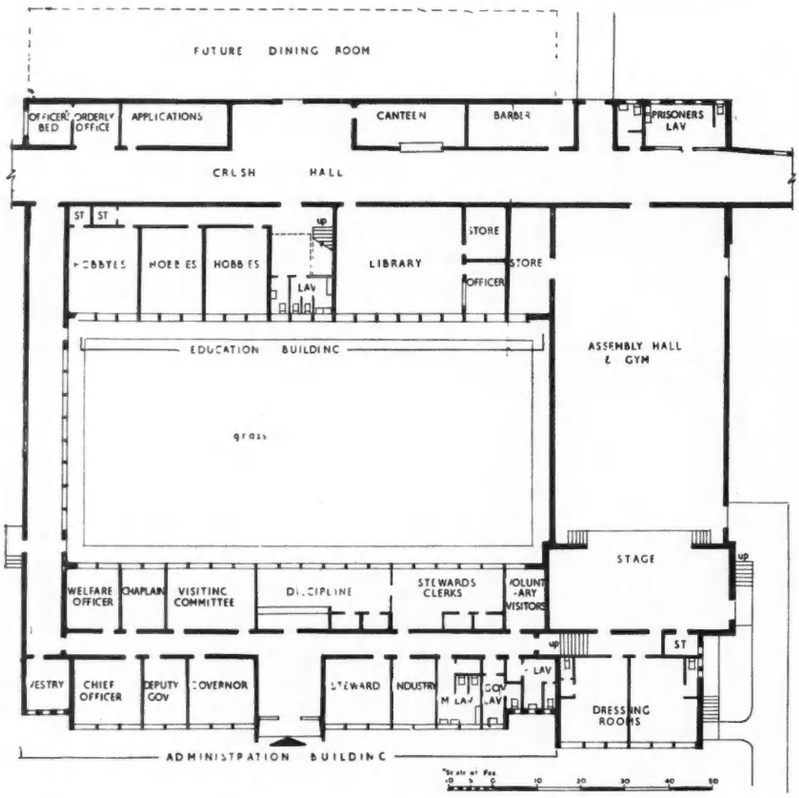
The Commissioners have kept in the foreground of all their post-war policies and decisions regarding accommodation, paragraph 6 of " The Rules for the Government of Prisons and Borstal Institutions ":




*Everthorpe Hall : Plan of hospital block.*




*Everthorpe Hall : Ground floor (below) and first floor of administration.*




citadels redundant to War Department needs, etc.

### *Architectural Design*

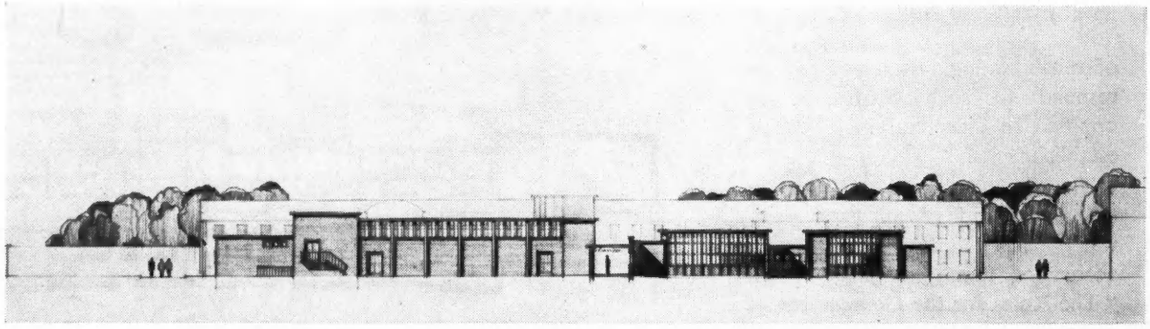
All architectural, engineering and constructional designs to these new establishments have been carried out by the professional and technical staff of the Director of Works to the Prison Commission, and the actual work on site has been executed under his control by a direct labour force of technical and tradesmen prison officers located at each establishment with the assistance of prisoner and inmate labour parties.

At existing establishments additional accommodation has been similarly provided by the Director of Works such as new workshops, classrooms, gymnasia, laundries, farm buildings, hostels, etc., and at the same time modernisations and improvements have been made to central kitchens, hospitals, bath houses, sanitary recesses, central heating systems, etc., and conversion from gas lighting to electricity, and upgrading of electricity power systems have been carried out.

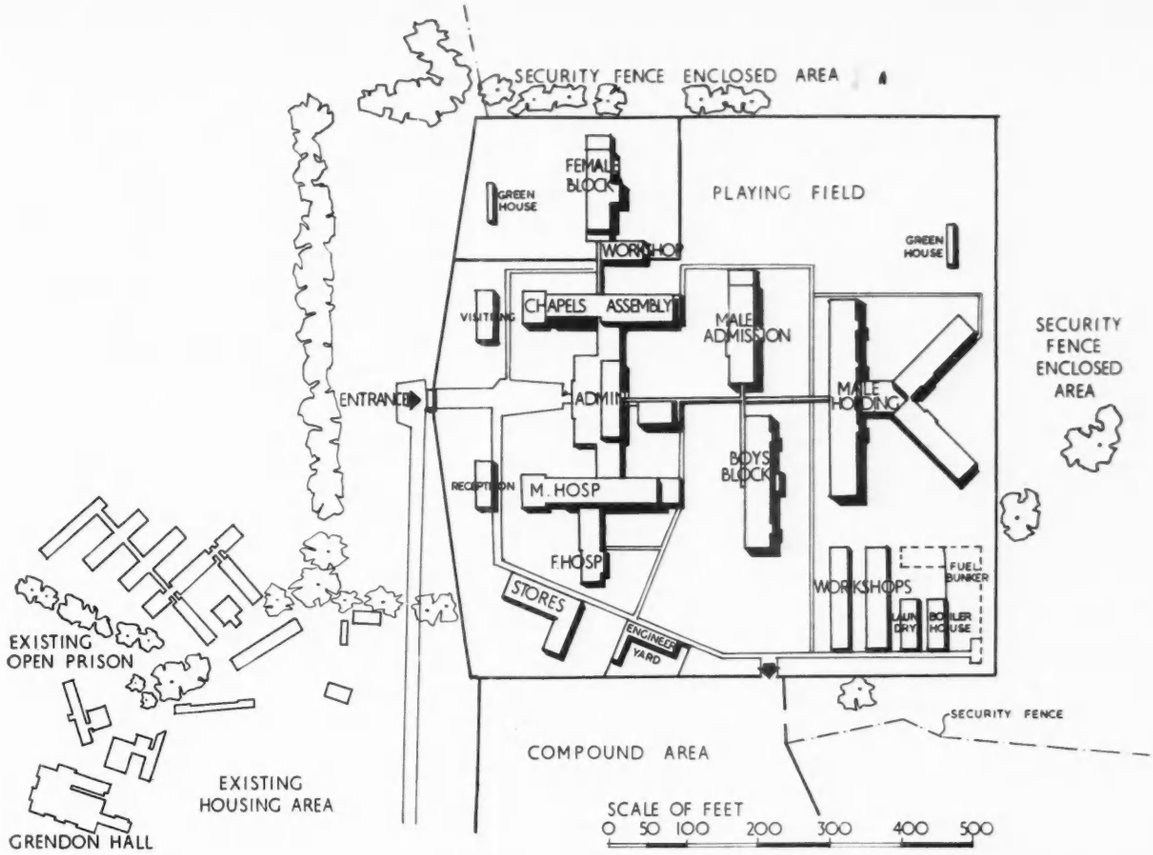
Housing accommodation for the extra staff required for these additional establishments, as well as those required to cope with the increased population in existing establishments, has had to be provided, and over the past 10 years more than 2,000 new married subordinate officers' quarters have been built, either by the Commissioners, or by the Ministry of Works as an agency service. Over 100 married quarters for superior officer staff have also been provided.

### *Need for Modern Prisons*

Following the war the Commissioners felt strongly there was a need for new modern full security prisons and Borstals to replace some of the older type establishments not considered fully suitable for their present purposes. After much delay



*Everthorpe Hall : NE elevations of administration buildings.*




## *Psychiatric Prison, Grendon Hall, Bucks*

financial authority was given for a new building programme consisting of two security training prisons, each for 300 men, two security Borstals, each for 150 boys, and two security Borstals, each for 75 girls. Grendon Hall, a new type of Psychiatric Prison, the first of its kind in this country, is also to be built and will accommodate 250 men, 25 women and 50 boys. The purpose of this new prison is to treat selected prisoners who, while not certifiable as insane or mentally defective, require psychological examination and psychiatric treatment. It will also treat prisoners who by reason of mental abnormality are unable to benefit from training by normal prison methods.

This programme for seven new security establishments has now been launched by the building of the first new prison at Everthorpe, near Hull.

### *The Everthorpe Prison*

The design and construction of the Everthorpe Prison is the responsibility of the Ministry of Works' Chief Architect, in consultation with the Director of Works to the Prison Commission.

Site works and the security boundary wall have been completed by a first phase contract, and the main contract for the erection of cell blocks and other ancillary buildings is now under construction by Messrs. F. Shepherd and Son, Ltd., of York, and the foundation stone of what will be the first modern security prison to be built for over 50 years, was laid by the Home Secretary on April 21 last.

The security wall is not of traditional brick gravity construction, but of precast and prestressed concrete units 12 in. in thickness, bolted together and grouted.

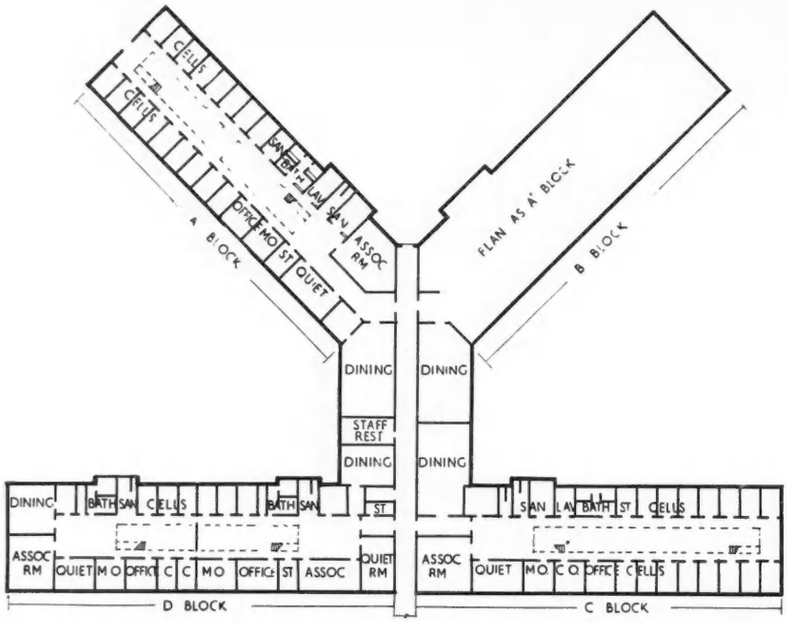
The construction of the three-storey cell blocks is of load-bearing brickwork, the windows to cells are larger than those in existing prisons and are of double hung sash opening type with guard bars of manganese steel. Floors are either of in-situ concrete or precast concrete beams, with general finishes of quarry tiles, granolithic, or thermoplastic materials. Roofs generally are of flat concrete, with deep overhanging eaves with asphalt surfaces, while those to the central portion of the cell blocks have curved concrete roof shells, with inserted glass block panels.

The Commissioners are advisedly not fitting w.c.'s or lavatory basins in prisoners' cells, but ample washing and sanitary facilities are provided to each cell block landing, with showers and slipper baths on ground floors. The central kitchen is fully equipped with modern steam apparatus, and is planned to serve meals cafeteria fashion to the dining hall adjacent, though the latter is not to be built at present on the grounds of economy. The cell block halls will be used initially for dining.

Central heating is by oil-fired steam boilers serving hot water radiators in each cell, which is considered more flexible than the hot air duct system prevailing in the older existing prisons.

Special attention will be paid to interior decoration of cell blocks, workshops, classrooms, etc., and will cover a wide range of pastel shades.

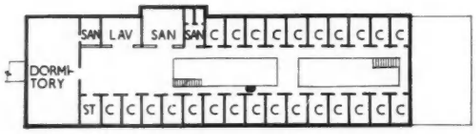
Preliminary plans for the Psychiatric Prison and the new Borstals are being prepared by the Prison



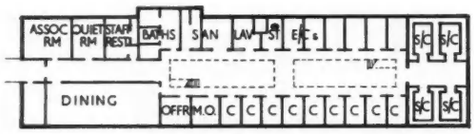

Ground Floor Plan

*Grendon Hall : Men's holding block.*

Basic Section

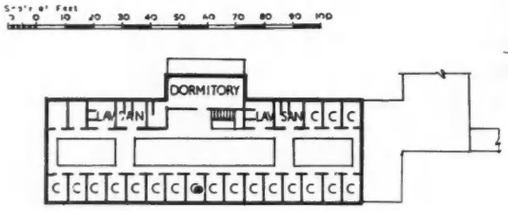



First Floor

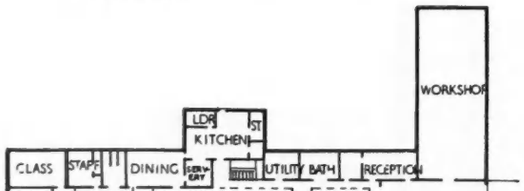



Ground Floor

*Grendon Hall : Men's admission block.*




First Floor




Ground Floor

*Grendon Hall : Women's block.*

Basic Section

Commission in conjunction with the Ministry of Works.

Following this programme, the Commissioners hope to build a series of security Remand and Observation Centres, the necessity for which is contained in the Criminal Justice Act, 1948, but so far has not been implemented.

In addition to the present programme it is estimated that at least seven such establishments will be required.

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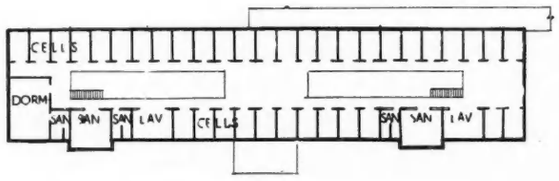
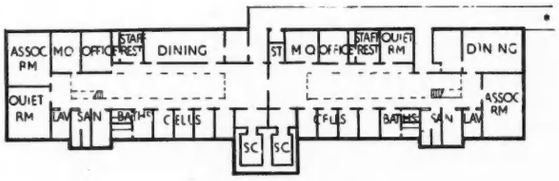
In the House of Commons on July 2 when the subject of the Chancellor's economies arose during the debate on Home Office affairs, MR. KENNETH YOUNGER, leading for the opposition, referred to the cut of £199,000 in the prison vote, and asked what its implications were.

Basic Section




First Floor

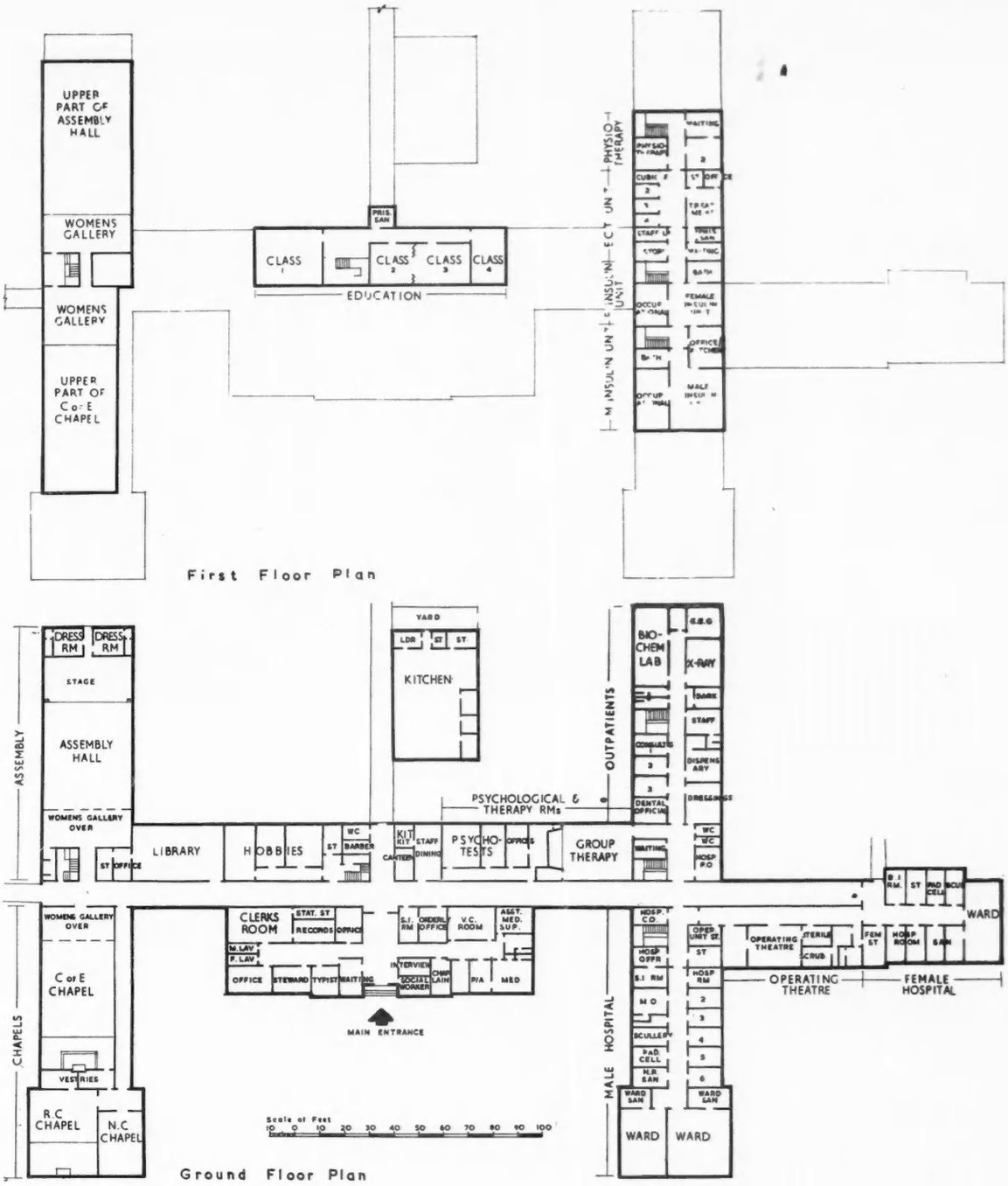



Ground Floor

*Grendon Hall : Boys' block.*

" Virtually all our security prisons are obsolete. To replace them would mean having a complete new set of prisons. It seems to me that the cost of a modern security prison is so great, and the competing claims on the Government are so numerous, that if we look at the problem in that way we shall never be able to achieve our ends," he said.

MAJOR LLOYD-GEORGE, the Home Secretary, said that the number of establishments under the control of the Prison Commissioners had risen from 40 to 70, including 20 open prisons and Borstal institutions, since the war. No more old prisons could be taken back into use. Further expansion must await the




*Grendon Hall : Plans of central block.*

building of new establishments which were either planned or in progress.

The first new prison to be built in Britain for 46 years, for which he had laid the foundation stone last April, would he hoped be ready in the autumn of next year. The building of a second prison, and the psychiatric hospital ought to be started before the end of the financial year.

One, and possibly two Borstals for boys would be started next year, and two Borstals for girls would follow as soon as possible. The main saving on the prison vote was one of £90,000 based on the deferment of starting dates and the purchase of sites for some of the new buildings.

Taking into account unforeseen delays in the preparation of plans this saving represented a more realistic assessment of the present possibilities. He did not think the date of the completion of those buildings would be significantly affected.

MR. YOUNGER asked if the Home Secretary could state what the remaining cuts consisted of if he accounted for £90,000 by referring to the postponement of the starting dates of building.

MAJOR LLOYD-GEORGE said that he had been referring to building. Much of the remainder was due to the deferment of schemes for houses.

## *PRISON BUILDING PROGRAMME FOR HM PRISON COMMISSIONERS*

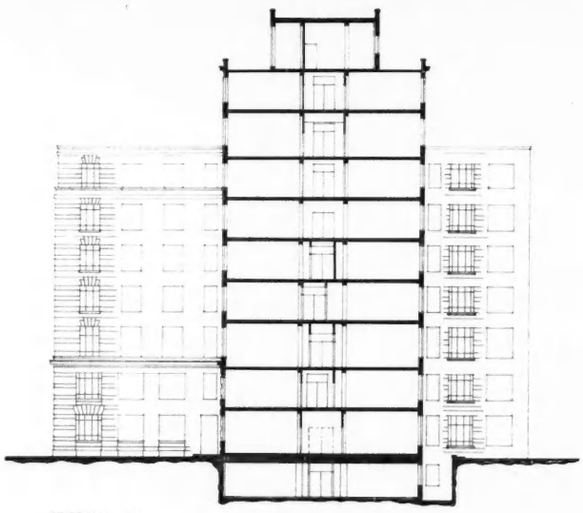
# *MERCURY HOUSE, LONDON*

***GORDON JEEVES,***
***Chartered Architects***

***H. C. UPTON, FRIBA,***
***Chief Architect, Cable & Wireless, Ltd.***

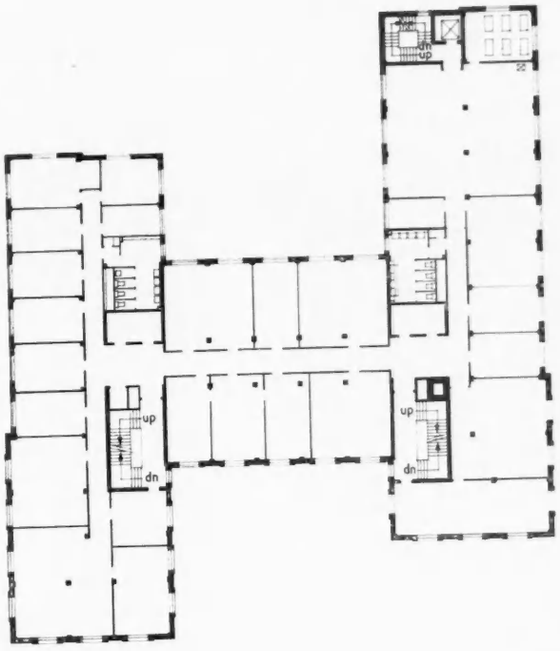
***RIDER HUNT & PARTNERS***
***Quantity Surveyors***

***SIR ROBERT McALPINE & SONS, Ltd.***
***Builders***

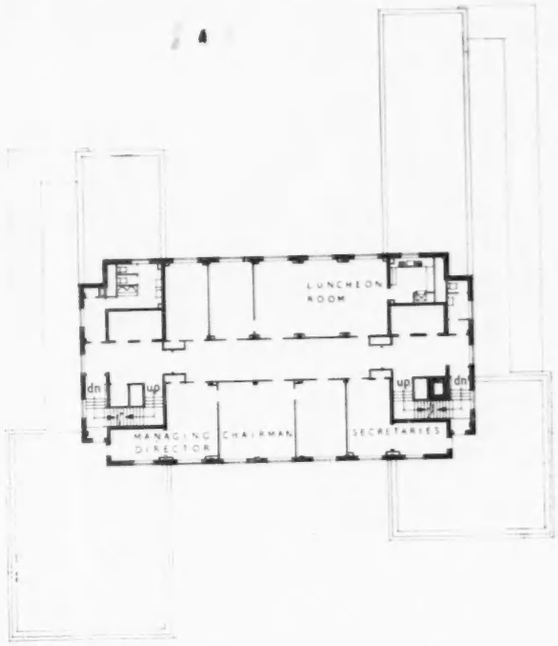


SECTION AA

THE new office for Cable and Wireless, Ltd., at 110-124, Theobald's-road, was named after Mercury, son of Jupiter, messenger of the gods and god of commerce. It was opened by Lord Reith, of Stonehaven, PC, GCVO, GBE, CB, TD. The building has a reinforced concrete structure, mass concrete foundations were carried down to compact gravel imposing a working pressure of three tons per square foot. The basement includes a grade A air-raid shelter with a 2-ft. slab over at ground-floor level. All floor beams and stairs were precast on the site. As far as possible high-tensile steel was used for reinforcement making in all only 0.48 lb. of reinforcement per cu. ft. of buildings. A fully-automatic central heating system using oil-fired boilers, convectors and low temperature embedded panels heats the building. Forced ventilation is supplied to the lavatories, dining-rooms, kitchens and conference rooms. The connected load for the electrical services is 300 kVA, and distribution is by two sets of rising busmains. Emergency lighting is provided to the staircases. The plumbing is on the one-pipe system using cast-iron drains and stacks, soil branches in lead and waste branches in copper. Four passenger lifts have been installed as well as a one-ton capacity goods lift. The exterior of the building has been finished with



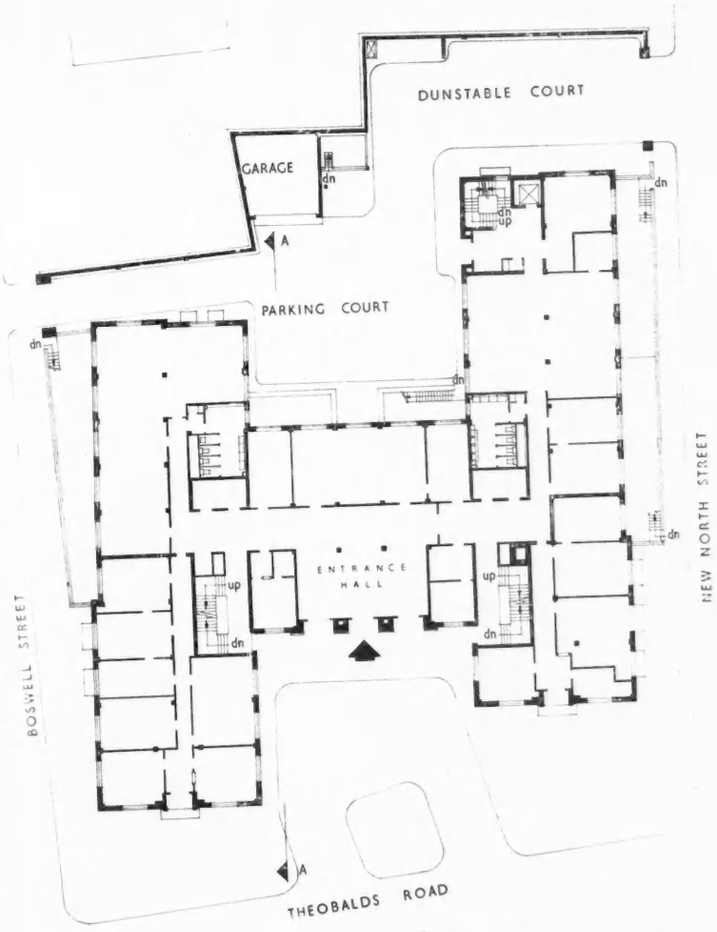

SECOND FLOOR




SEVENTH FLOOR

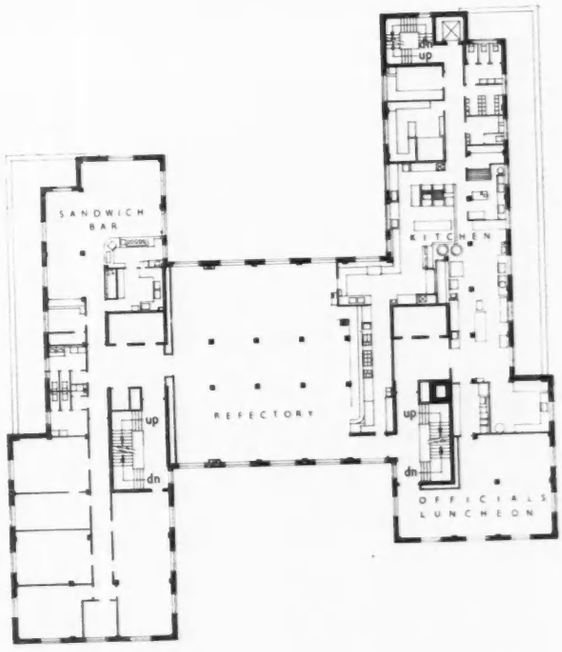
## PLANS & SECTION

Scale: 1 inch = 48 feet

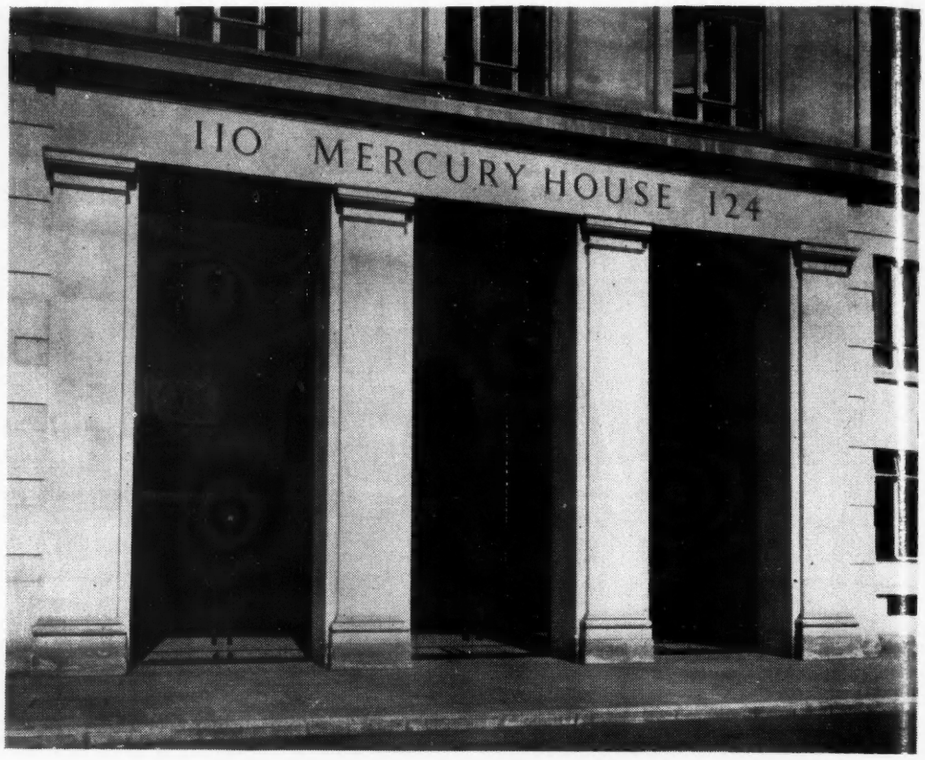



GROUND FLOOR

scale of feet 10 0 10 20 30 40 50 60

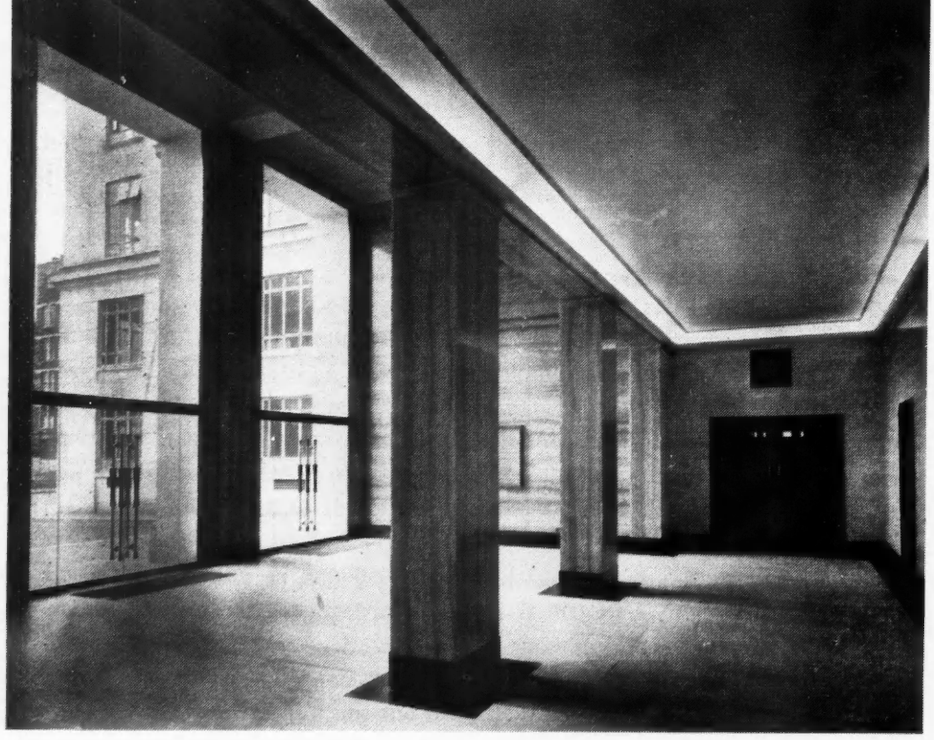



FIFTH FLOOR




*Detail of main entrance facing Theobald's-road. The armour-plate doors and windows over are in a bronze frame.*

3-inch Portland stone facing, the internal walls generally are plastered and painted. Exceptions are the entrance hall which is lined with green marble and Travertine and the refectory which is lined with Vynide. Windows have metal frames and doors generally are polished hardwood flush panelled. The main entrance doors are armour-plate in bronze surround, and the pavilion entrance doors are bronze-covered hardwood. Certain internal doors are walnut, panelled and sometimes glazed. The floor finish generally is lino tiles. In the entrance hall there is travertine with a Belgian Black marble border and architrave. The lavatories have terrazzo, and the directors' suite and the refectory have hardwood blocks. Some cork tiles were laid in noisy rooms in conjunction with acoustic tile ceilings which have also been used in the refectory. Other ceilings were plastered and distempered. Accessible parts of the roof were covered with bituminous felt and surfaced with cement and sand, other roofs are asphalt.



*The entrance hall runs through two floors with an access balcony at mezzanine level at the rear.*

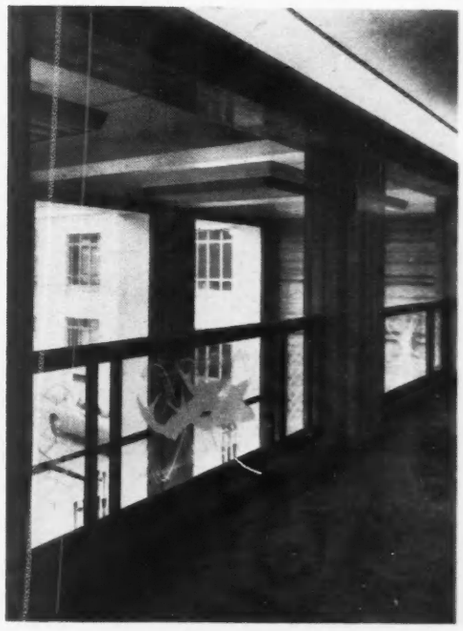
## Sub-contractors and suppliers:

Pyrok, C. and T. (Pyrok), Ltd. ; cork floors, Armstrong Cork Co., Ltd. ; plastering, Jonathan James, Ltd.; painting and decorations, W. J. Brooker, Ltd.; glazing, Pugh Bros., Ltd.; stonework, Bath and Portland Stone Firms, Ltd.; asphalt, Ragusa Asphalte Co., Ltd.; York stone paving, Garden Landscapes (London), Ltd.; tarmacadam, General Asphalte Co., Ltd.; plumbing, heating and ventilation, Ellis (Kensington), Ltd.; electrical installation, Troughton and Young, Ltd.; lift installation, Waygood-Otis, Ltd.; metal windows, Morris Singer, Ltd.; terrazzo, Marriott and Price, Ltd.; marble, Fenning and Co., Ltd., wall and floor tiling, Parkinsons, Ltd.; acoustics, John Dale, Ltd.; metal partitions, Chatwood Safe Co.; linoleum, Lino Tile Co.; " Phenco " tiling, Phoenix Rubber Co.; wood block flooring, Stevens and Adams, Ltd. ; pavement lights, Lenscrete, Ltd.; specialist metalwork and flagpoles, Haskins; balustrading, handrailing and gates, T. W. Palmer and Co.; sprinkler installation, Automatic Sprinkler Co., Ltd.; lightning protection, J. W. Gray and Son, Ltd.; cooking apparatus and kitchen equipment, Benham and Sons, Ltd.; steel rolling shutters, Shutter Contractors, Ltd.; stone carving, Arthur Cousins; polishing, J. Greenham; doors, Samuel Elliott and Sons (Reading), Ltd.; ironmongery, Dennis Waring and Co., Ltd.; sanitary fittings, O'Brien Thomas (London), Ltd.; paint, R. W. Gay and Co.; safe doors, Chubb and Sons, Ltd.; non-slip treads, Adamite, Ltd.; softwood joinery, Geo. Parker (Joinery), Ltd.; incinerators, William Sugg ; skytowers, Belling and Lee ; fletton bricks, London Brick Co., Ltd.; facing bricks, Fisons, Ltd.; Abbey slots and anchors, Abbey Buildings Supplies, Ltd.; copper cramps, Holloway Metal Roofs, Ltd.

*Boswell-st. elevation.*

# *Mercury House*

*Mezzanine-level balcony over entrance hall.*



*Balustrade detail.*

# CRICKET

## *The National Federation Take Revenge*

THE annual battle, since 1955 for the Jeanne Hearder Trophy, between the National Federation of Building Trades Employers and the Vitruvians (the architectural and technical Press) was joined on Friday, July 6, at the Richmond ground. To epitomise the result, the Builders took the cup, after some anxious moments in which their captain, the one and only Joe Bird, found his hair rapidly greying.

This match, now in its seventh year, has not always been blessed with cricket weather, but on Friday the Air Ministry made full amends. This change for the better was connected in the minds of some with the late arrival of the Vitruvians' umpire, Mr. Tatham, who as Editor of *Whitaker's Almanack* was confidently assumed to have been having a word with his contemporary *Old Moore*. Whatever the reason, the sun shone, a gentle breeze blew from the south (where the cheering sight of a brewer's van unloading large quantities of bottled beer was to be seen) to the north, or Pagoda, end where archers were endeavouring to transfix a colourful series of targets. This, it is to be feared, went to the head of the Vitruvians' captain, who, on unexpectedly winning the toss, elected to bat—a notoriously dangerous thing to do on a green, early morning Richmond wicket.

### *A Local Terror*

Forebodings were soon justified. The National opened with Fred Munnion, a local terror in Mid-Sussex, and—ominous sign—Joe Bird himself, fresh from haymaking among the wickets in the Cheshire League. A nice leg glance by Boswell brought Batty (who, when not playing cricket, is an architect in the City) up against the left-handed Munnion, who promptly tried him successfully with a dipping yorker on the leg stump, a cruel ball so early in the innings. This brought in Boyd, who began as though he had been playing fast outswingers since breakfast-time. He soon lost Boswell, bowled by Bird with one which might have got Graveney, and shortly after Hill and Mudie were on their way back to the bar, the former caught off Bird by Morton, who kept wicket well, and Mudie bowled by Henry Munnion, who was temporarily caretaking at the south end for his brother. Boyd's departure, hitting over a ball from Blake, was a real loss, for he had looked confident. The real fact was that the bowling was so keen that it needed risks if runs were to come. Five for 23!

*THE PRESIDENT sends down the first ball. J. G. Batty is the batsman, B. J. Garrett at mid-on and P. J. Flitton umpire. The ball was treated with proper respect!*

This brought together Kennedy Hawkes and Roy Hart, who took the score very confidently up to 39, at which point lunch was taken. Here the Vitruvians distinguished themselves rather better; certainly no wickets fell while Nigel Hannen, National President, who had earlier bowled the opening ball in a manner which showed what a good oar he has been in his time, welcomed the Vitruvians felicitously and warmly while hinting that they had polished up the trophy in vain. Joe Bird, showing form as a speaker equal to his skill with a ball, thanked Mrs. Hearder (who, with the Director, was present throughout the day) for the generous gift of the trophy, after which the umpires suddenly woke to their duty and ordered the teams on to the field once more. Lunch, alas, was fatal for Hawkes, who fell to another of Fred Munnion's yorkers, and also to the next three batsmen, who ingloriously departed for the addition of one run. With the total at 46 all seemed over, bar sending for May and Cowdrey. Then, as so often happens in cricket, came the best innings of the whole match. Faldo, of *Official Architecture and Planning*, and Hart became associated, and the game suddenly came alive. Hart made some glorious strokes all round the wicket, Faldo defended stoutly and skilfully, and together the pair added 30 runs in 20 minutes. Hart's covering of his partner was excellent, though it led in the end to Faldo being run out. Seventy-six all out, exactly half of which had been scored by Hart. A fine knock.

### *No Problems?*

On a wicket which had dried out this, the builders must have thought, presented no problems, and Blake and Martin Hart took first strike against Dowson (*A and BN*) and Robin Mudie (*The Architects' Journal*), admittedly a strong combination. With 12 runs on the board both were back in the Pavilion, Hart having carelessly left a leg in the way of a fizzer and Blake well caught off a miss-hit at cover by Boswell, Dowson in each case being the bowler. Enter Gregory! Now Gregory is the Vitruvians' bogey man. He has scored two centuries in the past three matches, though without leaving any ill-feeling behind, so gloriously does he hit. He started off by taking three fine fours off Dowson, but then lost Triggs at 21, caught at the wicket off Mudie, who was bowling with plenty of life. This quietened him down, for he actually took a single before hitting his first six in the general direction of the Pagoda in Kew Gardens. About this time the Vitruvians' captain was toying fancifully with the idea of bringing on one of the archers with bow and arrow at the Pagoda end; instead he brought on Batty, who, after being struck by Leader for 11 runs in the first four balls, incredibly bowled Gregory with his sixth. The hush that fell over the ground could have been heard in Cobham. Four for 70 and Joe's hair in the pavilion visibly paling! But Bunny Garrett, who captains the LMBA XI, has dealt with this situation before, and two firm strokes from him with a sharp single from Leader, solid as Mackay, brought the score to 77 and victory by six wickets. The fielding on both sides was of a standard which one associates with this match.

All that remained to do, before the teams repaired to the Mid-Surrey Golf Club, with Stanley Hearder as official and "Young Dick" Costain from Liverpool as unofficial hosts, was for the Vitruvians to congratulate the National on winning the Trophy for the first time! As the National had thoughtfully taken the precaution to bring down a bottle of champagne in anticipation of someone winning the match, the Trophy—after presentation by Mrs. Hearder—was

*THE NATIONAL FEDERATION: Seen above are the National President (Mr. Nigel Hannen) and Mr. S. F. S. Hearder (National Director) with the National Federation XI, umpire and scorers.* Back row: *H. J. Munnion, B. W. Gregory, B. Garrett, V. Leader, R. W. Triggs, V. R. Blake, C. F. Kidman, F. Morton and P. J. Flitton (umpire).* In front: *C. Moisey (scorer), Nigel Hannen, T. Martin-Hart, F. J. Munnion, J. A. Bird (captain), Miss J. Gouda (scorer), and Stanley Hearder.*

passed as a loving cup in celebration of a splendid day's cricket and reunion.

### *Scores*

VITRUVIANS

| | |
|---|---|
| D. Boswell b Bird | 3 |
| J. G. Batty b F. J. Munnion | 0 |
| A. Boyd b Blake | 10 |
| R. F. Hill c Morton b Bird | 6 |
| R. D. Mudie b H. J. Munnion | 1 |
| J. Kennedy Hawkes b F. J. Munnion | 10 |
| R. C. Hart not out | 38 |
| R. Dowson b Bird | 0 |
| I. M. Leslie c F. J. Munnion b Bird | 0 |
| E. Binfield b F. J. Munnion | 0 |
| W. A. K. Faldo run out | 2 |
| Extras | 6 |
| Total | 76 |

NFBTE

| | |
|---|---|
| V. R. Blake c Boswell b Dowson | 8 |
| T. Martin Hart lbw b Dowson | 3 |
| E. W. Gregory b Batty | 29 |
| R. W. Triggs c Leslie b Mudie | 2 |
| V. Leader not out | 16 |
| B. J. Garrett not out | 6 |
| Extras | 13 |
| Total (for 4 wkts) | 77 |

H. J. Munnion, F. Morton, F. J. Munnion, C. F. Kidman and J. A. Bird did not bat.

Bowling:

NFBTE

| | | | | |
|---|---|---|---|---|
| Munnion (F. J.) | 12.5 | 3 | 21 | 3 |
| Bird | 13 | 4 | 33 | 4 |
| Munnion (H. J.) | 4 | 3 | 1 | 1 |
| Blake | 5 | 3 | 5 | 1 |

VITRUVIANS

| | | | | |
|---|---|---|---|---|
| Dowson | 5 | 1 | 19 | 2 |
| Mudie | 6 | 0 | 19 | 1 |
| Batty | 4 | 0 | 23 | 1 |

Umpires: F. H. C. Tatham and P. J. Flitton.
Scorers: H. Moisey and Miss Jill Gouda.

# *News of the Week*

### *New Chief Architect, MoE*

MR. S. A. W. JOHNSON-MARSHALL, OBE, B.Arch. (L'pool), ARIBA, Chief Architect to the Ministry of Education, will resign from the Civil Service on July 14, to go into private practice.

Mr. A. Pott, ARIBA, Principal Architect and at present in charge of the Ministry's Development Group has been appointed in his place, with effect from July 16.

Mr. Pott joined the Ministry in 1949 from the Building Research Station, DSIR, where he was in charge of the Architects' Section.

### *RIBA Appointments*

AT THEIR meeting on July 3, the RIBA Council appointed Professor Basil Spence, OBE, ARA, ARSA, honorary secretary, and Mr. E. D. Jefferiss Mathews, OBE, ARICS, honorary treasurer.

### *Students Exempted*

A FORMAL decision that a research student should be treated as being in full-time education, and so excused from paying national insurance contributions, is included in ten newly announced decisions by the Minister of Pensions and National Insurance, Mr. Boyd-Carpenter. The decisions are published in Pamphlet M7, Selected Decisions of the Minister on Questions of Classification and Insurability, HMSO, price 9d.

### *The late Joseph Pike*

WE REGRET to record the death, which took place on Tuesday, July 10, of Mr. Joseph Pike, the artist, at his home at 22, Nassau-road, Barnes, SW13. Mr. Pike was well known in the architectural profession for his perspectives and architectural sketches and much sympathy will be felt for his widow. There will be a requiem at St. Osmund's Church, Barnes, on July 14, at 9.30 a.m.

The death is also announced of Mr. Thomas Rutter Eltringham, MVO, OBE, FRIBA, who retired in 1951 as Assistant Chief Architect to the Ministry of Works; and of Mr. Harry Thomas Goodwin, FRIBA, of Orpington, Kent, as the result of a car accident.

### *Licentiates of the IAAS*

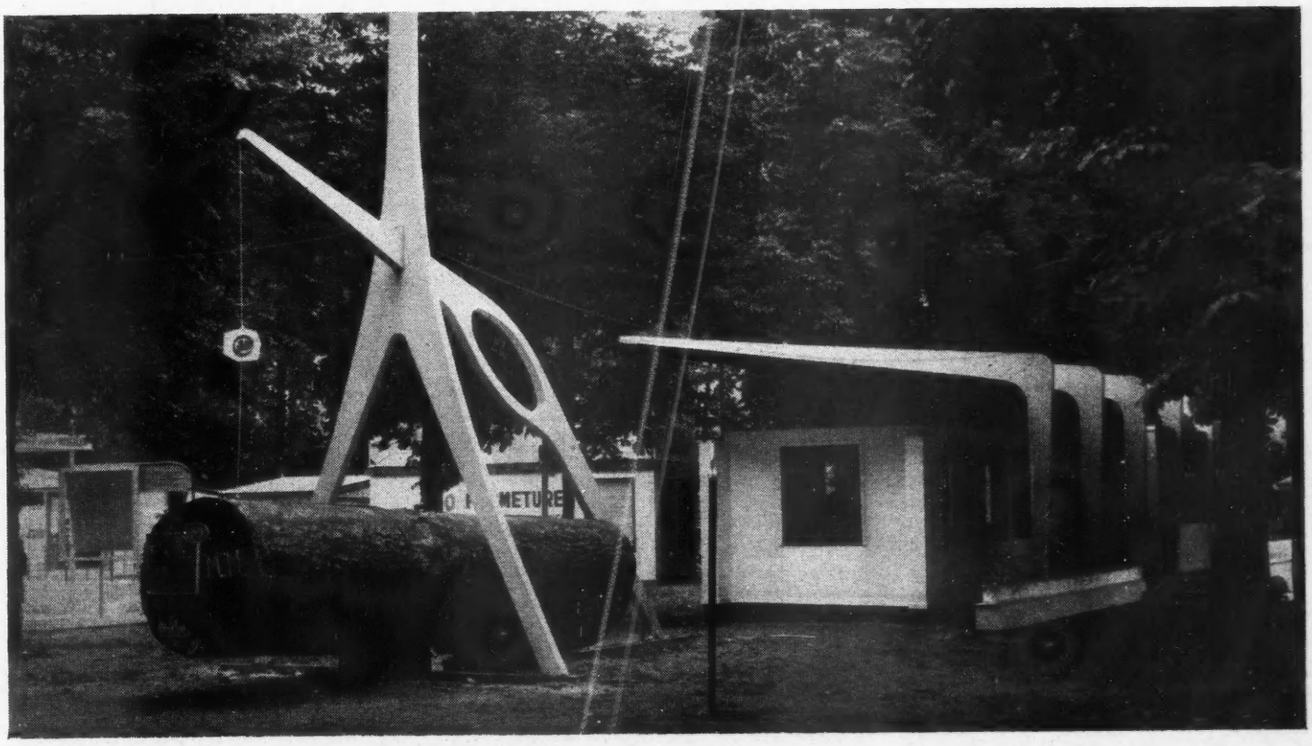
REGISTERED architects are advised that the Council of the Incorporated Association of Architects and Surveyors have announced that as from September 1, the licentiate grade of membership, hitherto granted on practice grounds, will be discontinued. Only applications received before that date will therefore be considered. Details from the general secretary of the IAAS at 29, Belgrave-square, London, SW1.

## *COMING EVENTS*

*WEDNESDAY, JULY 18.*

NORTHERN POLYTECHNIC.—Presentation of prizes and exhibition of work of the departments of architecture, surveying and building. Holloway, London, N7. 7 p.m.

VICTORIA AND ALBERT MUSEUM.—Exhibition of mediaeval paintings from Norwich. (Continues until October 28.)



*The second International Building and Public Works Exhibition took place in Paris last month. Picture shows the stand of the French Federation of Timber Door and Window Frame Manufacturers.* *See page 81.*

### *RICS 1956 Supplement*

THE 1956 supplement to the 1953 list of members of the Royal Institution of Chartered Surveyors has been published. The list is corrected up to January 2 of this year.

### *Royal College of Art*

SIR DAVID ECCLES, Minister of Education, has appointed Mr. Duncan Oppenheim to be chairman of the council of the Royal College of Art in place of Sir Colin Anderson, who is retiring after serving as chairman since 1951. At Convocation, which was held on July 6, Sir Kenneth Clark, a Senior Fellow of the College, gave the address.

### *Appointments Open*

WEST RIDING CC advertise for applications by August 31 for the post of County Architect. Salary £3,285 rising to £3,655 per annum.

Westmorland CC advertise for applications by July 27 for the post of County Architect and County Planning Officer. Salary £1,735 rising to £1,955.

Warwickshire CC advertise for applications by July 28 for the post of Chief Quantity Surveyor. Salary £1,295 rising to £1,515. Details advertised elsewhere.

### *Professional Announcement*

MESSRS. COLIN ROWNTREE, FRIBA, and GERALD L. THOMPSON, FRIBA, have entered into partnership as chartered architects. The firm will be known as Rowntree & Thompson, and will continue to practise from 120, The Mount, York (tel.: York 22274), and 22, Parkstreet, Selby (tel.: Selby 117).

### *FROM "THE BUILDER" OF 1856*

*Saturday, July* 12, 1856

THE SHIPWRIGHTS' STRIKE.—The workmen employed by Messrs. Young and Magnay, instead of those connected with the Shipwrights' Union who struck work on the lunch question, are shamefully tampered with, harassed, and intimidated by those connected with the union, who seem to constitute a conspiracy to prevent fellow-workmen from earning a livelihood, much rather than a union for behoof of workmen. . . . It now comes to the question whether the law or the union is the strongest. "Our yard," says Mr. Magnay, "is like a beleagured fortress. Men are constantly watching from a publichouse window all that is going on within; there are spies and scouts at the corner of every street near the yard; the men we engage in the country are intercepted at the railway stations; and we believe intimidation has been practised."

## *WINDOWS FOR COVENTRY*

### *An Appreciation by Basil Marriott*

THE showing at the Victoria and Albert Museum of part of Coventry Cathedral's glass is a major event of more than architectural interest in view of the growing public interest in the progress of the project and of the City's rebuilding itself. Though we do not emote about these things, the significance of Coventry as a re-birth-place rather than as a graveyard has I think caught the popular imagination as never before or elsewhere: this is the conclusive answer to calculated outrage, and if "New" Coventry is a *memento mori*, it is to the death of a régime deliberately capable of such actions rather than to Coventry, which never died.

Public interest, for better or worse, means public criticism— more or less informed: rather less informed than otherwise in the case of an architecture tending less and less to be on the surface but more and more demanding understanding of underlying "bones"—structure, materials and their function—almost before face and certainly before dress are critically examined. With certain of its branches there are, however, emotional considerations outweighing these others, and to a correspondingly greater degree lay opinion is material in gauging the designer's success. This is true of religious buildings generally—the St. Paul's controversy is another case—though ecclesiastical authorities and their architects must find it ironical to hear so much about how their churches should look from people who don't actually use them! But there is some force in the argument that a church, let alone a Cathedral, can hardly be overlooked even by the unregenerate, and all this comes to a vociferous head when plans for its repair or (as in Coventry's case) re-building are published.

Of all the Coventry criticisms so far heard, the extreme of invalidity seems the question of the desirability of a "modern" building, though the alternative of restoration is seldom seriously postulated. Quite apart from its physical integration with a new, unequivocally modern city centre, a replica or "souvenir" seems the absolute negation of what Coventry's renascence means both symbolically and factually. A person killed in action is surely less well remembered by an effigy—even less by a mummification—than by an offspring who carries on, as it were, the family line and occupation.

If that analogy holds good, moreover, the debated decision to retain and incorporate what remains of the old seems in itself tacit acknowledgement of paternity, which does not demand that the new should copy the old in dress or manner in order to prove heredity in spirit or purpose.

Though old history now, this principle rather than the design seemed once at stake, and Coventry bid fair to become another of those battlegrounds where most of us felt forced vehemently to defend *in toto* what we may have had misgivings about in detail. Basil Spence's reasonableness and patience—apparently loyally supported by local and ecclesiastical opinion— in successively disarming such criticisms, put them in the proper perspective of mere personal preferences, appear to be winning the day.

The point of recapitulation is that, during this progress, each part published will re-focus public attention: and the part that comes nearest reality will get the sharpest focus. Now that the actual glass is seen, though in a mocked-up setting and with other improvisations, I suspect that the question of principle will re-emerge. The glass is of course "modern" —how not?—but its designers' triumph lies in carrying out Basil Spence's expressed aim "to fuse the fabric with the glass" (in which context he quotes Chartres' integration of glass with architecture) so that both are unmistakably contemporary in the technique and idiom used to express a traditional iconography and timeless emotional content. No honest person, I think, will be able truthfully to say that the windows are like nothing they've seen before, or do not move them as do ancient examples. Monochrome illustrations of some of the glass were shown in last week's *Builder*.

The usual purpose of a note of this kind—to urge readers to visit the exhibition—is superfluous in this case, and details were published in the last issue, accompanied by photographs for which allowances will have been made for stained glass being the least photogenic of subjects, relying as it does on colour and translucency. But since full appreciation must also await completion and erection, my purpose here is mainly to emphasize certain reservations to remember in receiving the V & A's "interim report."

First, the artificial lighting is inevitably not as bright—or rather as brightly diffused—as daylight, nor will the glass eventually be viewed in semi-darkness, i.e., with the containing fret (which is in any case simulated flat) in silhouette. This most affects, I imagine, the Purple windows—Nos. 3 and 5 on the "God" and "Man" sides respectively. Secondly, since six only of the ten windows are displayed, the calculated tonality is necessarily unbalanced: for instance, the multicoloured window (No. 4 on the "God" side) gains somewhat by its chromatic "nonconformity" until taking its proper place in the chromatic sequence.

Thirdly, that the width available between the mocked-up side-walls, "serrated" on plan, is considerably less than actuality while the windows are, of course, full height: one cannot therefore quite get far enough away from them.

For all that, the effect is vivid and impressive in the extreme. I cannot close without a word about the Press and Private view arrangements: I have seldom experienced better, and the public will be no less well served. Our Press material was exhaustive down to details of the designers' private lives, welcome I suppose to a popular Press avid for such personal profiles and even relevant, perhaps, to the job in hand. A brochure publicly available contains contributions by Basil Spence, Robin Darwin, the designers and Basil Taylor.

The workmanship of the Museum and the college staffs in mounting the display is beyond reproach. I am less sure about the canned, broadcast church music and felt the impression through the eyes alone was sufficiently moving, and was rather relieved that wafts of synthetic incense were not forthcoming!

MK118
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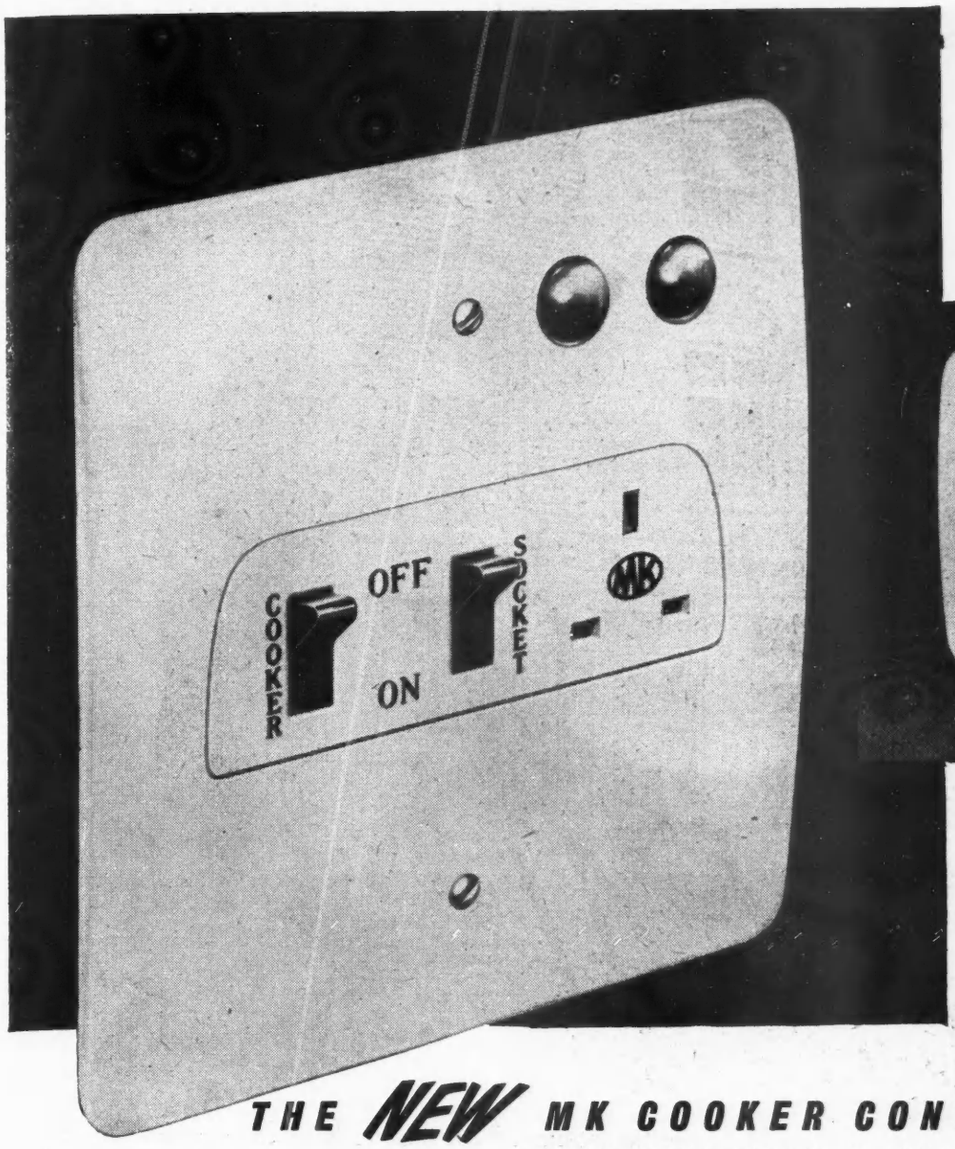


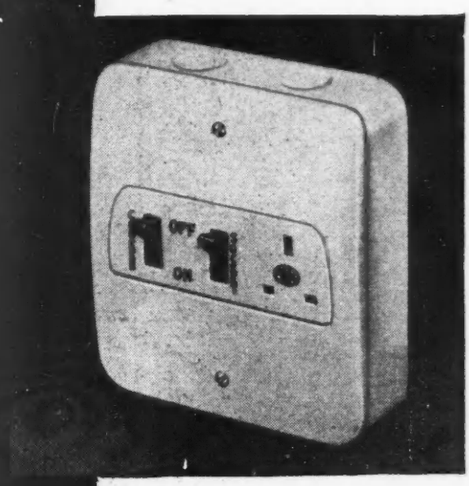


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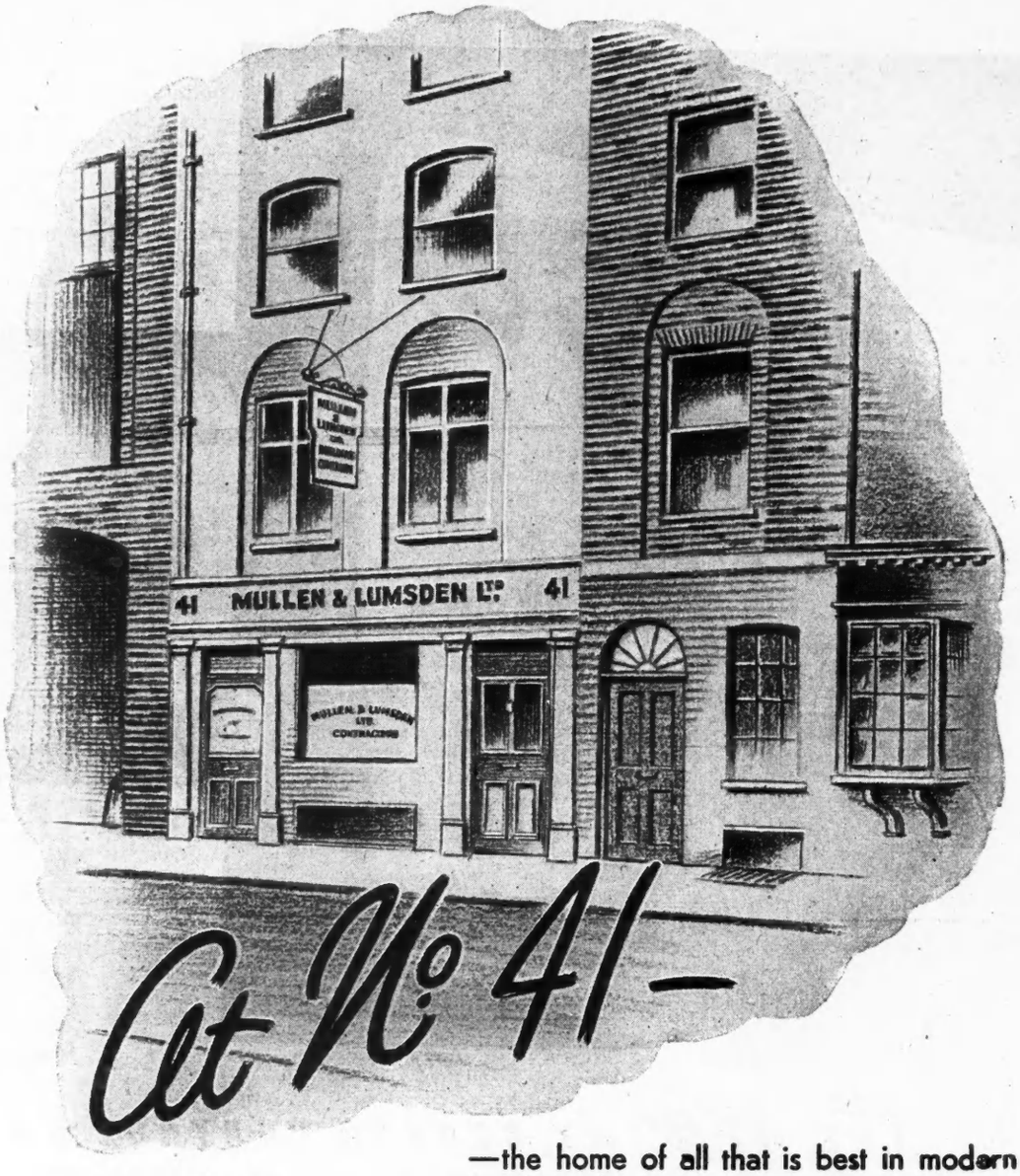


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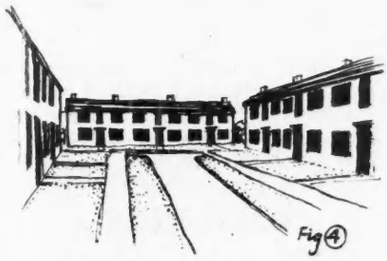
Fig ①

Fig ②

Fig ③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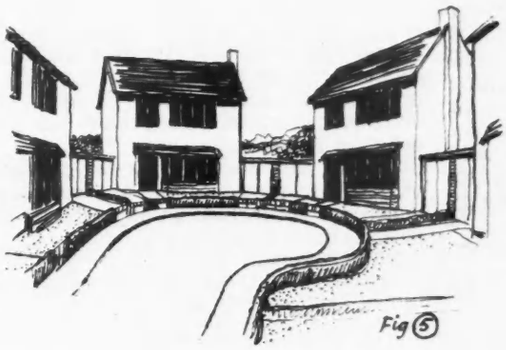
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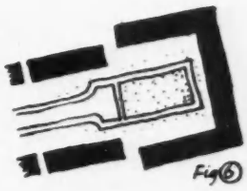
Fig ⑥

Fig ⑦

Fig ⑧

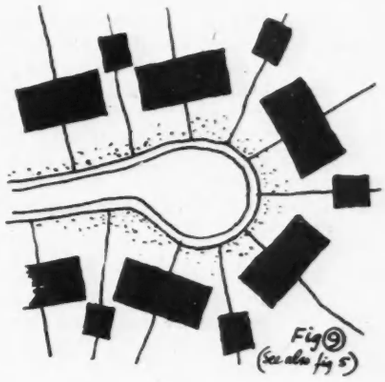
Fig ⑨
(see also fig 5)

# *The Residential Cul-de-sac: Basic Rules of Conventional Forms*

***By J. L. BERBIERS, ARIBA, AMTPI***

MUCH has already been written in official and other publications concerning the three-dimensional aspect of cul-de-sac design. However, a few essential, although perhaps elementary, points might be mentioned here.

A cul-de-sac should not run downhill from its point of entry with a "through" road, as the view from houses at the end would be blocked or at least restricted by the rising ground in front of them (Fig. 1). Moreover, from the elevated viewpoint at the entrance, the least desirable characteristics of a cul-de-sac—its restricted geometrical form, for example, or the absence of elevational cohesion—will be seen at a glance (Fig. 2).

The end must be adequately closed with buildings. A gap which occurs centrally between two terminating house blocks destroys all sense of unity (Fig. 3). The most satisfactory termination for a cul-de-sac is the unbroken terrace of several houses extending across the end. Although seldom possible in private development, this arrangement is frequently adopted in municipal housing (Fig. 4). To achieve an element of continuity the spacing of buildings, particularly of non-municipal houses, must be reduced to a minimum. In both private and municipal housing the use of link walls between blocks increases the sense of enclosure around the head of a cul-de-sac (Fig. 5).

### *Simple Layouts Essential*

Simplicity of layout is an essential quality of cul-de-sac design. This might be achieved without difficulty in municipal housing where a rectangular form of cul-de-sac, composed largely of terrace houses, is employed (Fig. 6). But in the case of development consisting almost entirely of detached and semi-detached houses with garages, a cul-de-sac is likely to appear lacking in simplicity and cohesion (Fig. 7), unless its form is emphasised and strengthened by the grouping and design of individual buildings (Fig. 5).

A symmetrical layout is visually often the least successful form of cul-de-sac development. The central carriageway divides the floor pattern into two equal parts and the effect is worsened if the axial view is closed only by a single detached house, or pair of semi-detached houses (Fig. 8). An improved layout with less emphasis on symmetry might be achieved if the close at the head is planned to one side of the central axis line (Fig. 9).

Consideration has been confined here to what might be described as the more conventional forms, but new trends in residential site planning and their aesthetic implications offer much scope for further study in cul-de-sac design.

# COUNCIL FOR VISUAL EDUCATION

## *The Appreciation of Design*

THE Thirteenth Annual Meeting of the Council for Visual Education was held on May 31 in London, when Mr. Leslie Hardern BA, FRSA, was in the chair. The meeting was addressed by MR. J. F. WOLFENDEN, CBE, MA, vice-chancellor of Reading University, who spoke on "The Appreciation of Design," and the following are extracts from what he said:

He considered it an honour and privilege to address the Council for Visual Education, with which the University of Reading had from the start been very happily associated. He said he would like to make it quite clear at the outset that he was speaking as the ordinary man-in-the-street, who had just come in off the street where, while walking about and looking at things, he had arrived at some tentative and grotesquely dogmatic conclusions.

The first thing one had to remember was that, as he understood it, things designed and made were made for man, and not the other way round. Things were designed, he thought, in order that man should have them for his use; and, secondly, they were designed for his enjoyment. It seemed to him that the two things were distinct, though he was prepared to be told that there was no disjunction here. To say that things were designed for use might open the door to bleak functionalism of the most fundamental kind, but it did at least put the first thing first.

If use was one criterion by which to judge design, enjoyment, or straight-forward aesthetic pleasure, was perhaps another. The nearest he could get to describing it was to call it rightness, fitness, appropriateness. The Greeks had only one word for the two things, but today he felt that apart from its use-value a thing could be "fitting" in such matters as scale, proportion and the material of which it was made.

On both criteria Mr. Wolfenden thought that education, or perhaps better, influence, was necessary. It was not his personal experience that children were born with innate good taste, or, as Wordsworth described it, "trailing clouds of glory," and that this taste was contaminated over the years by their surroundings. He believed it was rather something which had to be acquired.

In our approach to young people we must be careful to remember that they were growing up in an age very different from that of our own young days. When he was a boy he used to feel he was doing pretty well if he could distinguish between one car and another, but now his 12-year-old daughter did not have to look up into the sky to identify a plane; she could tell what sort it was by the noise it made. The essence of being contemporary was not to become "dated"; to be able to live in one's own age, using its materials and meeting its needs.

From what he had said, Mr. Wolfenden drew some tentative conclusions. First he felt that the appreciation of design was not a God-given gift, but a matter of education. The second conclusion he had reached was that there was danger in laying down canons of "good taste," whether for oneself, for other people, or for young people. The older he grew, the less convinced he was about "good taste." Of course there must be some principles, and of course they were valuable, and one tried to explain to children what they were. But there was danger of cramping and confining into lifelessness.

A point which was particularly important today was the discipline which the material imposed. The material used should never be regarded as a handicap, or even just as a challenge. It must be an incarnation of what could not be achieved in any other way.

Finally, Mr. Wolfenden stated his conviction that no education was complete which did not include an appreciation of design in all its aspects.

MR. G. SUTTON, who said he was not unfamiliar with the subject, described, during the discussion, the function of children's painting as twofold. The purpose was first to give the child an emotional outlet, and secondly to give it a growing appreciation of art. The first might well lead on to the second. In the case of very young children, a formal and disciplined approach to art would be unsuitable.

MR. WOLFENDEN thought this could hardly be done without an enormous number of competent teachers, but MR. SUTTON questioned whether teachers needed to be less competent at the formal level. MR. WOLFENDEN replied that he thought there was no need for formal instruction at an early stage, but for some guidance of the young child's effort.

MR. SUDDS thought that mass production tended to restrict variety, leaving design in the hands of a few. He would prefer every individual to design and create beautiful things, capturing something of the spirit of the artist, who, having finished a beautiful picture, would despise any mass reproduction of his work of art.

MR. WOLFENDEN replied that he did not think there was any necessary connection between having beautiful things readily available to everyone and leading standardised lives. Instead of there being one beautiful teacup owned by one person, it would surely be better to have a multiplication of this teacup, so that it could be enjoyed by many. MR. SUDDS thought that mass production tended to restrict variety, but MR. WOLFENDEN saw no conflict between them.

# HISTORIC BUILDINGS

## *MoW Grants for Last Quarter*

TO help to preserve historic buildings or their contents, the Minister of Works has made 32 grants to a total value of £66,705 in the last three months. These grants have been approved on recommendation of the Historic Buildings Councils for England, Scotland and Wales under Act of Parliament of 1953, and are for the following buildings:

ENGLAND

Hazlewood Castle, near Tadcaster, Yorks; Wolterton Hall, Erpingham, Norfolk; Pakenham Tower Mill, Suffolk; The Round House, Havering-atte-Bower, Essex; Entrance Gates at Dyrham Park, Barnet, Herts; Squerryes Court, Westerham, Kent (second grant); Windmill at Cranbrook, Kent; Danny House, Hurstpierpoint, Sussex; Faringdon Old Town Hall, Berks; Avebury Manor, Wilts; Whitelackington Manor House, near Ilminster, Som; Dodington, Chipping Sodbury, Glos (second grant); Chattels at Flaxley Abbey, Glos; Forde House, Newton Abbot, Devon; Collacombe Manor, near Tavistock, Devon (second grant); Old Guildhall, Plympton St. Maurice, Devon; Ragley Hall, near Alcester, Warwicks; Coughton Court, near Alcester, Warwicks (second grant); Stratford House, Camp Hill, Birmingham; and Turton Tower, near Bolton, Lancs.

WALES

Garthewin, near Abergele, Denbigh; Chirk Castle, Wrexham, Denbigh (third grant); Maesmawr Hall, Caersws, Mont; and Glandovan, Cilgerran, Pembs.

SCOTLAND

Yester House, East Lothian; Winton Castle, East Lothian (fourth grant); Harbour Cottage, Kirkcudbright; Kilkerran House, Ayrshire; Foulis Castle, Ross-shire; Killochan Castle, Ayrshire; Kellie Castle, Arbroath, Angus; and Town Hall Steeple, Crail, Fife.

With grants announced in nine previous lists during 1954-56, the number of buildings assisted is now 277 and the total sum granted £773,000. Applications for aid came to 1,369, of which 826 have been rejected.

# SOCIETIES

## *BIRMINGHAM AND FIVE COUNTIES AA*

### *Election of Officers*

MR. HERBERT JACKSON, FRIBA, has been elected president of the Birmingham and Five Counties AA. With Sir Patrick Abercrombie, Mr. Jackson was joint author of the West Midlands and North Staffordshire plans, and, with Dr. Alwyn Lloyd, of the South Wales regional plan.

Other officers of the association include vice-presidents Mr. Edward Holman, FRIBA (Birmingham), Mr. S. Greenwood (Coventry), and Mr. Alan R. Young, FRIBA (Dudley). Hon. secretaries, Lieut.-Col. J. L. Osborne, ARIBA, and Mr. B. V. James, ARIBA. Hon. treasurer, Mr. C. Morgan Silk.

## *TOWN PLANNING INSTITUTE*

### *Annual Awards*

AT THE Town Planning Institute's annual general meeting on June 28, the president, Mr. Desmond Heap, presented the following awards:

Silver medal and certificate for the best thesis submitted as part of the degree or diploma examination conducted by a recognised school of planning, Mr. C. H. Glover, BA, Walsall, Rees Jeffreys Research Fellow of the Road Research Laboratory of the Department of Scientific and Industrial Research. His subject was "Restoration of Derelict Mineral Land."

The "George and Amy Pepler" award for 1956, for the best paper on town planning practice in Part II of the final examination went to Mr. Peter W. Bryant, planning assistant to Wolverhampton County Borough Council.

The Joint Board Prize for the best set of papers for the 1956 Part II final examination to Mr. J. M. Smith, MA, planning assistant to Northumberland County Council.

Winner of the "Thomas Adams" Prize for 1956 for his essay entitled "Trees in Towns" was Mr. S. W. Midwinter, ARIBA, of Whitehead, Co. Antrim, Northern Ireland.

After the awards Sir Thomas Bennett read his paper, "Progress Report on the New Towns" (reported in *The Builder*, July 6).

# A £500 A SIDE CHALLENGE

The Building Research Station recently completed a three-year natural weathering test on cement/lime mortar and mortar containing an air-entraining plasticiser—all cubes of hardened mortar composed of 1 part cement to 1 part hydrated lime to 6 parts sand were attacked and affected by the repeated cycles of freezing and thawing that occurred during the three winters. In contrast, all cubes of hardened mortar gauged 1 part cement to 6 parts sand plus an air-entraining plasticiser were unaffected.

Further tests also showed that the plasticised mortar had far greater resistance to the passage of water than that of the 1:1:6 mortar.

*With our own Research Department obtaining similar results to the independent Building Research Station investigation, conclusive proof is now available that mortar plasticised by an air-entraining agent has greater durability than that of a cement/lime mortar.*

To any Firm, Association or Federation disputing this claim, we hereby challenge them to enter into a durability competition for £500 a side—we backing the results obtained with a mortar mix gauged 1 part cement to 6 parts sand with our Febmix Admix Plasticiser incorporated, against that of a mortar gauged 1 part cement to 1 part hydrated lime to 6 parts sand, in a natural durability weather test carried out in a similar manner to that used by the Building Research Station. The test work to be carried out by an independent consultant, with the loser donating £500 to a nominated Building Charity.

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# IN PARLIAMENT

*By Our Parliamentary Correspondent*

## *Provision of Welfare Accommodation*

IN view of the amount of building now in progress, in which the hospital programme played a not unimportant part, it has been necessary to restrict new loan sanctions to essential needs in the provision of welfare accommodation for elderly people, and to choose the most urgent projects.

This was announced in the Commons, on July 2, by MR. TURTON, Minister of Health. He stated that since April 1 loan sanctions had been postponed on schemes to the value of £900,000, including nine new buildings, and had been issued or promised on schemes to the value of £980,000, including 13 new buildings.

These loan sanctions, and those given before April, would constitute the present building programme for old people's hostels. The matter would again be reviewed in the autumn. He was satisfied that his hospital building programme this year, which would be £4,250,000 more than 1950-51, would help to put matters right.

MR. GIBSON asked how many maternity and health centres had been refused consent or had a starting date denied because of the cut of £340,000 in the capital estimates of local authorities.

MISS HORNSBY-SMITH, Parliamentary Secretary, Ministry of Health: One health centre and ten maternity and child welfare clinics.

She added that during the loan restrictions all departments had been asked to make some contribution to the Government's policy. These schemes had not got the highest priority, and they had not been able to sanction them.

MR. MARQUAND asked the Minister of Health why he had refused loan sanction for the building of a maternity and child welfare clinic at Park End, Middlesbrough.

MISS HORNSBY-SMITH.—Mainly because the proposal was too dear. The council has been asked to reduce the cost, but, with current restrictions on capital expenditure, I cannot yet say when a loan sanction can be given.

She added that the plans had been approved in principle but when the plans were received it had been found they were both large and unduly costly in view of the population to be served. For that reason they had had to ask the authority to re-examine the plans, which would be considered for loan sanction in relation to the priority of other schemes.

## *New Towns in Scotland*

IT is not proposed to designate any further new towns in Scotland at present, the Secretary of State for Scotland announced in a written answer in the Commons on July 3. MR. STUART was answering a question about future designations to provide for Glasgow's overspill.

He also asked about his decision on the proposed acquisition by Glasgow Corporation of 500 acres of ground in the Summerston area for the building of 5,000 houses.

He stated that the National Coal Board had applied to the Glasgow Corporation for permission to work coal under the area in question, and had not yet received a decision from them. As an appeal might be made to him from the coal board in the event of the corporation refusing, or attaching conditions to their permission, he could not intervene at this stage and had so informed the corporation.

MR. HAMILTON asked the Secretary of State if he would make a statement on his recent meeting with the Fife County Council and the Glenrothes Development Corporation on future policy in the new town.

MR. NIXON BROWNE, Under Secretary, Scottish Office, replying on July 3, said.—The Secretary of State is now considering the views put forward by the development corporation and the county council at their recent meeting with the Minister of State, and hopes to make an announcement at an early date.

MR. HAMILTON asked if the announcement would be made before the summer recess and in the House.

MR. BROWNE replied "Yes," to both parts of that question. He added that the Government had nothing to be ashamed of in their policy. They welcomed the signs of greater activity. In the last six months 149 miners from other areas had been housed, compared with 13 in the previous six months and a total of 85 in the period 1948-55.

## *Economic Policy and Building*

BUILDING controls and licensing were again used as an illustration of a method by which the Government could secure more economies in current expenditure, when the House of Commons discussed the Opposition's challenge to the Chancellor's interim statement in particular and the Government economic policy in general on July 3.

MR. MACMILLAN, however, did not rise to the bait. He contented himself with the broader general issues, with special reference to present difficulties in the motor industry, and if at the end he had done little to enlighten the House on the details and principles of his £76m. interim cuts he had the satisfaction of having his policies endorsed by 310 votes to 239.

While he was explaining the issues at stake in the motor industry, MR. ALBU asked him why, in the circumstances, the Minister of Housing and Local Government was allowing a new factory to be built for motor car manufacturers in the Luton and Dunstable area when engineering employers in the new towns in that area were short of labour.

MR. MACMILLAN retorted that it would be a defeatist view to say that because there were difficulties in that industry they should not build modern plants and bring existing ones up to date. That would condemn the Government to absolute frustration.

On the point of his interim reductions, the Chancellor thought it easy to sneer at the £76m., much easier to do that than to find the money. That sum was equivalent to 6d. on the standard rate of tax, to more than half the whole yield of surtax, to about one third of the yield on beer duty and to twice the entertainments duty.

### *Controls Advocated*

It was MR. HAROLD WILSON, opening the debate, who raised the question of building controls. Referring to the expansion in investment in the motor industry he suggested that the Chancellor might argue that there was nothing they could do about such expansion because it would mean controls and building licensing. It was noted, he went on, that Mr. Macmillan was getting a little more receptive to this idea, but his Government colleagues would not let him introduce it. In a recent speech at Leeds he had stated that he had an open mind on this question, but believed that building licensing would not work in time.

"In time for what?" asked Mr. Wilson. "It cannot work in time for the economic crisis this year; but then this was being urged on him last year. He should introduce it this year to prevent next year's crisis." It was no good saying it worked too slowly. The premium bond scheme would work slowly, but the Chancellor thought it would solve his economic difficulties.

SIR ROBERT BOOTHBY said that Mr. Sandys had shocked him when, in defending his decision to permit the erection of "this ridiculous tower in Battersea Park" he had said that planning controls were never intended by Parliament to be used for regulating capital investment. "My answer to that," said Sir Robert, "is that they should be used to regulate it, and the sooner the better."

In a series of pertinent and critical questions he asked the Government and the House whether it was thought that the nation could go on in existing circumstances with absolutely unrestricted building. "Mr. Macmillan," he pointed out, "put the spring into building. He gave it a tremendous impetus at the right moment, but I do not think it can be left absolutely unchecked so far as dwelling houses are concerned. There must be some direction here."

### *Old People's Homes*

MR. BLENKINSOP drew attention to the actions of the Minister of Health in rejecting or postponing proposals for the erection of old people's homes. Since April, he said, the Minister had rejected schemes to a total of £1m. He cited the example of Newcastle where the local authority had put up proposals for accommodation for 64 persons which had been approved in principle by the Ministry, and it was thought the scheme would go forward.

At a time when the Minister was urging local authorities to pay special attention to this problem he was being forced by the Chancellor to cancel many of the schemes, no doubt with promises that at some time in the future they would be reconsidered.

In Newcastle private building of all kinds, including the erection of shop fronts and huge new office blocks was proceeding. None of that was subject to the form of check or control which was imposed on local authority projects. The Opposition could not accept a Ministry or a Government saying that because work was undertaken by a local authority it had to be subject to much more strict control and check than work which it was agreed to be of far less importance and was being carried on under private enterprise without any public sanctioning being required.

MR. TURTON, Minister of Health, said that the reason why loan sanction was not granted to the Newcastle scheme, which would cost about £60,000, was to enable other similar accommodation which the Ministry believed would meet even more urgent and essential needs. More than £900,000 had been sanctioned for this work in the half year, in

addition to other loan sanction given before April. No scheme had been cancelled and all would be reconsidered at the end of the half year.

MR. BLENKINSOP asked how they were to know that this scheme would be allowed to proceed in October, or some time later. It was plain nonsense to suggest that this scheme was to be postponed so that other work could go forward. The labour and materials might well go into one of the schemes for development which were in progress now or into a multitude of other private projects.

### *Prisons and Borstals*

In a written reply on July 5, the HOME SECRETARY said that there would be a deferment to some extent of the following projects provided in the 1956-57 Estimates.—The second new prison which was planned; the East Hubert Psychiatric Institution; two new detention centres; two Borstal institutions; a number of officers' quarters and a small number of miscellaneous capital works, mainly improvement of existing buildings. He hoped that it would nevertheless be possible to complete within the current financial year the purchase of the site for the new prison and to make a start on site works in connection with the East Hubert Institution. The adaptation of premises for a fourth detention centre would not be affected.

### *Local Authority Loans*

OPPOSITION fears that Government monetary policy was destroying the functions which the Public Works Loans Board was set up to perform were described as a complete fallacy by MR. HENRY BROOKE, Financial Secretary to the Treasury, in the Commons on July 6, when the Public Works Loans Bill was discussed on second reading.

The Bill places at the disposal of the Board £300m. from which to grant loans to local authorities in the next year or so. This is £200m. less than the amount which was allocated by the previous Act, passed in March 1955, and which is now almost exhausted, but the Government feel that at the reduced rate of borrowing which has operated since October last year the amount they now allocate will be sufficient to meet demands made on the board during a similar period to that in which the existing legislation has been in force.

Mr. Brooke indicated that of the £500m. provided in March 1955, £402m. had already been allocated, £283m. of it for housing, £35m. for education and £49m. for purposes such as transport, water and land drainage.

He said that since October when the policy was somewhat changed local authorities had been making vigorous efforts to seek to raise money in the open market by their own efforts. In many cases they had been successful. The amount raised between January and June was £37m. The trustee savings banks, at the end of their financial year, had on loan on mortgage to local authorities about £163m.

The Opposition's anxieties were voiced by MR. MITCHISON. He argued that because of the reduced number of applications made since 1952-53 the board was only operating at about 39 per cent. of the rate it was in that year. There had been a sharp drop in approvals in the last year, and there seemed to be some doubt about how long the board would stand up. How much he asked, of the £300m. was estimated to be the result of loans which had been sanctioned and would not be the subject of fresh applications.

MR. BROOKE said that commitments amounting to £67m. were not yet taken up and he could not say how much would be before the Bill became law, nor how many further applications there might have been by then. No one could be certain of that.

The Bill was read a second time.

## *OTHER BUSINESS*

### *Scottish School Building*

MR. HAMILTON asked the Secretary of State for Scotland to give an assurance that there would be no cuts in, or slowing down of, the school building programme as part of the current national economy campaign.

MR. HENDERSON STEWART, Under Secretary, Scottish Office said.—No project which is essential to provide for the increase in the school roll, for the movement of population to new housing areas, or for the development of technical education, is being postponed, but the Secretary of State has asked education authorities to defer certain projects which do not fall into any of these categories.

MR. HAMILTON suggested that the answer was being less than frank with the House. This constant niggling at the education Estimates was causing concern among people who were genuinely interested in education. If the nation's competitors were putting their shirts on education should not the Secretary of State do the same for Scotland?

MR. STEWART said that they were putting much more on than their shirts: they were putting on all they possibly could. Last year the starts on new schools were a record at £11,400,000. This year the figure would be higher.

MR. HOY said that the Under Secretary last year gave the starting dates for most school building in Scotland as well as announcing the date for the Forth Road bridge. Could it be taken that neither of those dates had been altered, and that the recent announcement of the Government did not alter the original starting date.

MR. STEWART said that the question of the Forth Road Bridge did not arise here. There had been a certain lag over from last year in the starting of some schools which authorities had hoped to start but found they could not. Adding those to this year's programme more starts than ever before in Scottish history would be made.

He added that 47 schools which the local authorities had hoped to start last year were not started. It was hoped that they would be started this year.

He informed MISS HERBISON that three schools were started in the period from April 1 to May 31, one of which the education authority had hoped to start in 1955-56. It was the Secretary of State's aim to ensure that all essential projects which education authorities were ready to start in 1956-57, whether they had expected to start them in the previous year or not, would go ahead as soon as they were ready.

### *Forth Road Bridge*

MR. HAMILTON asked the Secretary of State for Scotland to state the reasons for not announcing a firm date for the starting of the Forth Road bridge; and whether he would give an assurance that the scheme would not be subject to toll charges.

MR. HENDERSON STEWART.—As the Secretary of State explained on June 19, the Government intend to authorise a start within the first four years of the road programme announced in February, 1955. The precise date of starting will be decided having regard to general economic circumstances. The Forth Road Bridge Order, 1947, provides for tolls to be levied.

### *Boiler Conversions*

MR. BRIAN HARRISON asked the Minister of Health on July 2, whether he would advise hospital management committees whose coal-burning boilers were obsolete to convert to fuel oil; and what action was being taken by his department to ensure fuel was not wasted.

MR. TURTON.—The choice of fuel must depend on a number of factors, including local conditions and cost. A large part of the £6m. available this year and next for plant replacement will be spent on new boiler installations which I hope will reduce waste; I intend soon to introduce a scheme of training for hospital stokers to ensure more efficient stoking.

### *Price Pegging Intentions*

MR. FREDERICK LEE asked the President of the Board of Trade which industries, other than the nationalised industries, have informed the Government of their intention not to increase their prices.

MR. DEREK WALKER-SMITH, Parliamentary Secretary, Board of Trade, replying on July 3 stated.—Four trade associations had, at the end of June, informed the Government of their members' intention not to increase their prices for certain periods.

He added, in reply to further questions by Mr. Lee, that the four associations were the Cement Makers' Federation, the Metal Windows' Association, the English Joinery Manufacturers' Association and the Glass Manufacturers' Federation. The Cement Makers' Federation had made a new stabilisation proposal to last until June next year.

### *Factory Plans*

MR. BLENKINSOP asked the President of the Board of Trade what more stringent criteria were being adopted for new factory building in development areas.

MR. DEREK WALKER-SMITH.—As I explained on June 5, all applications have been deferred except for a very few of special importance and urgency.

He denied that this amounted to a further example of the refusal of the Government to take any direction at all towards encouraging industry in the development areas. He had explained on June 5 the principles on which the Government were proceeding, and in relation to applications of special urgency they had decided in seven out of eight cases to go ahead.

### *Singapore Housing*

MR. STAN AWBERY asked the Secretary of State for the Colonies what were the estimated housing requirements in Singapore; what were the average number of houses built during the past five years by the Singapore Improvement Trust; and what was the estimate for the current year.

MR. HARE, Minister of State, Colonial Office, in a written reply on June 4 stated.—

The Singapore master plan, published last year, estimates that 10,000 housing units a

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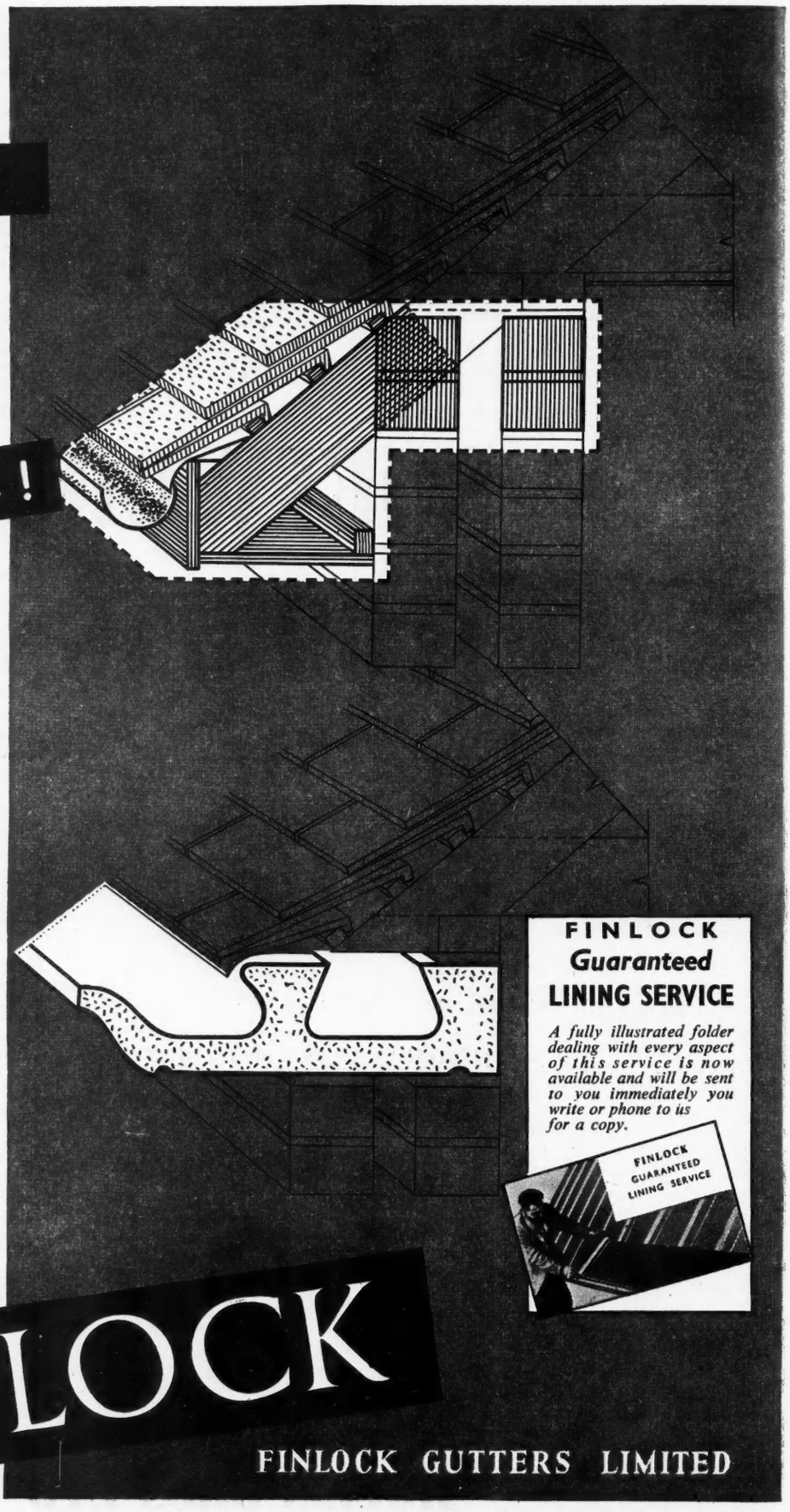

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year need to be built in Singapore to provide for slum clearance and the increase in population over the next 20 years. The Singapore Improvement Trust built an annual average of 2,016 units during the years 1951-55 and expect to build 2,272 this year.

### *US Capital for Hotels*

SIR ROLAND ROBINSON asked the President of the Board of Trade whether he was aware that the number of first-class hotels in London was inadequate to cater for the needs of overseas tourists visiting the United Kingdom; and what action he was taking to see that adequate hotel facilities were available to meet the growing demand.

MR. PETER THORNEYCROFT, replying on July 5, said: My Department will be as helpful as they can to anyone who is interested in providing additional hotel accommodation anywhere in Great Britain, which is intended primarily to cater for overseas visitors.

He added that he had been in touch with a number of Americans, some of whom were interested in putting capital into investment of this character.

His department's powers did not include putting up public funds to finance hotel building.

### *Public Works Loans*

MR. MITCHISON asked the Chancellor of the Exchequer what total amounts had been issued under the Public Works Loans Act, 1955, up to March 31, 1956, and, since then, up to the latest convenient date; and how much of those amounts had been borrowed, respectively, for education, for public health, for housing, for other local authority purposes and for repayment of maturing debt.

MR. HENRY BROOKE, Financial Secretary, Treasury, in a written reply on July 5, stated: The total of advances made under the Public Works Loans Act, 1955, up to March 31, 1956, was £364.3m. The total of advances issued since March 31, 1956, up to the end of last week was £37.5m., for the following purposes:—Education, £1.3m.; public health, £2.4m.; housing, £28.5m.; reborrowing, £400,000; other purposes, £4.9m.

MR. MITCHISON also asked the Chancellor what changes had been made in the rates of interest charged by the Public Works Loans Board to local authorities and to bodies other than local authorities since March 31, 1955.

MR. BROOKE: The rates charged by the Public Works Loan Board to local authorities have been:

| | 5 years or less % | Over 5 but less than 15 years % | Over 15 years % |
|---|---|---|---|
| From April 1 to July 8, 1955 | 3¼ | 3¾ | 4 |
| From July 9 to Aug. 12, 1955 | 3¾ | 4¼ | 4¼ |
| From Aug. 13 to Sept. 6, 1955 | 4⅛ | 4½ | 4½ |
| From Sept. 7, 1955, to Jan. 13, 1956 | 4½ | 5 | 5 |
| From Jan 14 to Mar. 23, 1956 | 5½ | 5⅝ | 5¼ |
| From Mar. 24 to June 22, 1956 | 5⅝ | 5½ | 5½ |
| From June 23 to the present time | 5¼ | 5½ | 5½ |

For loans for any period up to 50 years to housing associations as defined by the Housing Act, 1936, and the Housing (Scotland) Act, 1950, for loans for any period up to 40 years under the Housing Acts to companies and private persons limiting their profits to the rate for the time being prescribed, and for loans for any period up to 50 years under the Harbours and Passing Tolls, etc., Act, 1861, with collateral security, the rates charged have been the same as those currently charged to local authorities for loans for periods of more than 15 years.

For loans for any period up to 40 years under the Housing Acts to companies and private persons not limiting their profits, for loans for any period up to 50 years under the Harbours and Passing Tolls, etc., Act, 1861, without collateral security, and for all other loans for any period, the rates charged have been ¼ per cent. more than those currently charged to local authorities for loans for periods of more than 15 years.

### *Coal Industry Finance*

WHEN the Coal Industry Bill, which provides power to increase by £350m. the amounts which can be advanced to the National Coal Board for capital purposes, was discussed in committee on July 5, MR. AUBREY JONES, the Minister of Fuel and Power, moved an amendment to ensure that the advances would be made within a five-year period.

He did so, he said, to remove a misconception that had arisen that the advances intended under the Bill were for 10 years because the Coal Board's new investment plan was that period, and to provide an extra opportunity for Parliament to scrutinise the ways in which the money made available to the board were used.

MR. GRIMOND said that he did not consider that they were given sufficient details of the way in which these large programmes were drawn up, and they were not shown how they were related to investment programmes in other industries such as oil, which was extremely important or the investment programmes of the Atomic Energy Authority.

The amendment was agreed to by 208 votes to 141.

The Bill was read the third time.

### *Clean Air Bill*

THE CLEAN AIR BILL was one of 28 Government Acts and measures which received the royal assent at a Royal Commission in the House of Lords on July 5.

### *Imperial Institute*

LEGISLATION to transfer the functions of the Imperial Institute to a new site from the present building is expected to be introduced by the Government in the next session. This was announced by SIR DAVID ECCLES, the Minister of Education, in a written answer in the Commons on July 6.

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### *New Stained-glass Medium*

Two altar windows, examples of a new technique of setting jewel-like stained glass in concrete, are features of the recently-completed St. Peter's Church, Doversgreen, Reigate. They are the first windows in this new medium to be both designed and executed in this country and were produced at the Wealdstone works of James Powell & Sons (Whitefriars) Ltd. No paint is used, all shading and designs being brought out by using different coloured tones in the glass itself. The surface of each piece, one inch or more in thickness, is chipped into facets by hand like a jewel, and this gives an intensely live and brilliant quality to the finished windows.

## *PIPED WATER SUPPLIES*

### *Progress in Rural Areas*

BY THE END of this year the mileage of water mains in the country will be half as great again as it was when the war ended. Every year mains of a total length sufficient to reach from London to New York are being laid.

These facts were given by MR. ENOCH POWELL, Parliamentary Secretary of the Ministry of Housing and Local Government, at a luncheon at Mere, Wiltshire, on June 30.

"The number of households in the country without a piped water supply," he added, "has been halved in the last five years, and schemes before the Minister at the moment will go far towards halving the remainder. Even in the present period of financial stress rural water schemes are being approved at the rate of £6½m. worth a year, and nearly all attract Government grants under the Act of 1944."

Mr. Powell, who was speaking before opening a new pumping station for Mere and Tisbury and Shaftesbury rural joint water committee, said that the scheme, of which the pumping station was a part would, besides many other benefits, bring a piped water supply for the first time to much of the population of the district.

## *WD SCHEDULE OF PRICES*

### *Revised Adjustment Percentages*

REVISED ADJUSTMENT PERCENTAGES to trade sections of the War Department Schedule of Prices for Works Services (1948), applicable to War Department Term Contracts (other than Term Contracts for Painting and Decorating Services) and effective from the dates indicated, are as follow:

| Section | Trade | Percentage addition effective from: Feb. 6, 1956 | Apr. 16, 1956 | June 1, 1956 |
|---|---|---|---|---|
| 1 | Excavator ... | 124 | 136 | 136 |
| 2 | Concretor ... | 103 | 108 | 108 |
| 3 | Bricklayer ... | 96 | 103 | 103 |
| 4 | Asphalter ... | 47 | 51 | 51 |
| 5 | Drainlayer ... | 83 | 87 | 87 |
| 6 | Mason ... ... | 93 | 100 | 100 |
| 7 | Pavior and Roadmaker ... | 54 | 57 | 57 |
| 8 | Roofer ... | 77 | 80 | 80 |
| 9 | Asbestos Cement Goods ... | 75 | 78 | 78 |
| 10 | Carpenter and Joiner ... | 88 | 91 | 91 |
| 11 | Ironmonger ... | 70 | 72 | 72 |
| 12 | Ironfounder, Smith and Structural Engineer ... | 108 | 114 | 114 |
| 13 | Gas Fitter ... | 92 | 99 | 99 |
| 14 | Plasterer, Floor and Wall Tiler | 88 | 94 | 94 |
| 15 | Plumber ... | 95 | 99 | 99 |
| 16 | Electrician ... | 78 | 78 | 80 |
| 17 | Glazier ... | 84 | 87 | 87 |
| 18 | Painter and Decorator ... | 92 | 101 | 101 |
| 19 | Hutting ... | 50 | 58 | 58 |

### *Memorandum on Common Land*

The Commons, Open Spaces and Footpaths Preservation Society, 71, Eccleston-square, SW1, has published a pamphlet of written evidence submitted to the Royal Commission on Common Land.

# Cromwell Road Extension Scheme

## BRITISH ROAD FEDERATION REPORT

BELIEVING that a flyover or viaduct is essential to relieve Hammersmith's notorious traffic jam and that the present plans for a street roundabout system there under the Cromwell-road Extension Scheme will make conditions even worse, the British Road Federation commissioned Messrs. C. P. Andren, MSc, AMICE, and N. V. E. Seymer, BA(Cantab.) to prepare an independent report on the subject. A Press Conference on the report was held last week in London under the chairmanship of Lord Derwent, chairman of the Federation. The report, which goes into the whole problem in considerable detail, shows that the proposed roundabout is inadequate even for present-day traffic, and that the flyover and improvements on the route east of it are necessary. It is accompanied by numerous diagrams and plans, one of which is here reproduced.

The introduction to the report is as follows:—

In a speech which he made to the Association of Metropolitan Borough Engineers and Surveyors on February 3 of this year, the Minister of Transport, Mr. Harold Watkinson, said:

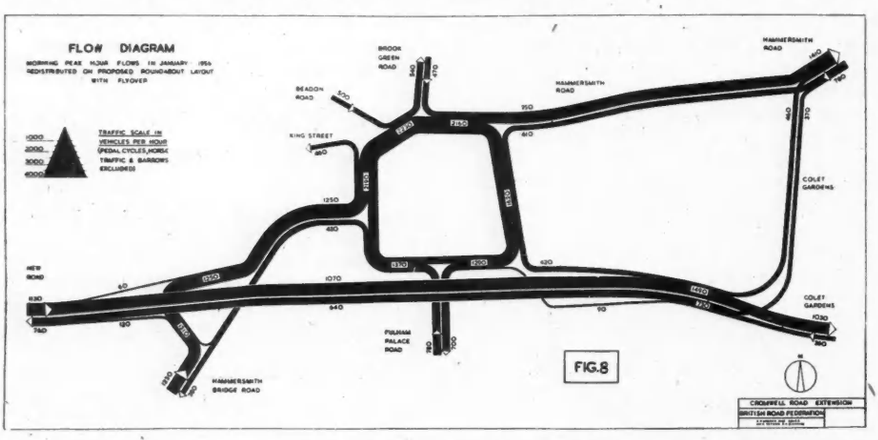
> "For the coming year I am going to concentrate all my immediate roadworks and policy towards the general objective of increasing traffic flow, of averting bottlenecks, and of trying to give the motorist some steady improvement in the roads which he at present uses day by day. I do want to emphasise very strongly the importance of keeping traffic flowing. Frankly, I see little point in building a super-fast track highway which starts and ends in a major bottleneck."

The British Road Federation endorses the last sentence. Indeed, the Federation is organising an Urban Motorways Conference in September to draw attention to the urgent need for providing high capacity limited access roads in, and penetrating right into, our larger cities. But we must warn the Minister—and that is the purpose of this report—of the grave danger that, unless very quick action is taken now, in two or three years' time the Cromwell-road Extension which is now being constructed at a cost of nearly £4 million (for about 3 miles of new and improved road) will be just such a case; a double track highway starting and ending in a major bottleneck.

The threatened bottleneck at the western end will be the result of not completing in time the planned flyover to carry the new road through to the Great West-road over the enlarged roundabout to be built at its junction with Chiswick High-road, Gunnersbury-avenue and Kew Bridge-road (these last two roads form part of the North Circular and South Circular-roads repectively).

Replying to a question in Parliament on July 1, 1955, the Minister's predecessor stated, "It is expected that a through road will be available before 1959, but for practical reasons the flyover at Chiswick High-road may not be completed until a little later."

It is hard to conjecture just what the "practical reasons" are which may apparently prevent the completion of the flyover by 1959. It is certainly to be hoped that the Minister will ensure that the flyover is built within the next three years.




If this is not done, and the traffic from the new road is fed into a roundabout, this junction will undoubtedly constitute a major bottleneck.

### Eastern End

The bottleneck at the eastern end will be a layout consisting of two roundabouts linked by a short length of new road. There will be a fairly small roundabout at the junction with Hammersmith Bridge-road, and a much larger one which will incorporate sections of existing streets—namely, Queen Caroline-street, Hammersmith Broadway, Hammersmith-road and Great Church-lane—plus a short section of new road linking Great Church-lane and Hammersmith-road some 100 yards to the east of Hammersmith Underground station. Great Church-lane will be widened, but the other streets forming this monster roundabout will be the same as they are at present.

The scheme which received Parliamentary approval in 1948 provided not only for the two roundabouts but also for a flyover some 2,600 feet in length. This structure was to carry east-west traffic over the two roundabouts—and thus over Hammersmith Bridge-road and Queen Caroline-street—from the new road to a point just west of the sharp bend in Colet Gardens (which leads through to Talgarth-road and so to the West Cromwell-road). It was approximately 60 feet wide, so that it would have been wide enough to carry two 20-foot carriageways, divided by a central strip 3 or 4 feet in width. The flyover was recommended after the war by the London and Home Counties Traffic Advisory Committee and the recommendation was accepted by the then Minister of Transport, Mr. Alfred Barnes. Succeeding Ministers have also supported the proposal.

When it was announced, in December, 1953, that the scheme was to be authorised, the construction of the flyover was not included. The London County Council, as Highway Improvement Authority for London, decided not to exercise the powers which it had obtained for that purpose by Act of Parliament and limited its action to making provision in the present scheme for the construction of the flyover at a later date.

### Traffic Engineering Investigation

The British Road Federation therefore decided to have a study made by consultants of the traffic capacity of the proposed roundabout layout, and its adequacy for the traffic volumes which will have to use the layout after the completion of the new road. The consultants made a very thorough investigation of traffic movements throughout a wide area of West London in order to determine how much traffic is likely to use the new road, and in particular how much traffic will have to pass through each part of the roundabout layout during peak hours. They were also able to estimate the proportion of present-day traffic which would use the flyover if it were constructed.

The consultants show that the proposed roundabout is inadequate even for present-day traffic. It is their view that an adequate scheme needs to be carried out to implement the flyover and improvements on the route east of it.

## OFFICIAL NOTIFICATION

### Purchase Tax on Clothes Lockers

AFTER consultation with the trade, the Commissioners of Customs and Excise have reviewed the scope of the exemption for certain clothes lockers under Group 11(g) of the Purchase Tax Schedule and have decided that in future it will include lockers of the materials specified, not exceeding 24 inches in width, of the following descriptions: lockers equipped for hanging clothes, boot lockers and combinations of clothes lockers and boot lockers, whether sold singly or in tiers or in nests.

As hitherto, the exemption does not extend to wardrobes, shelved cupboards, or combinations of lockers with shelved cupboards.

## PERSONAL COLUMN

The chairman and directors of International Paints (Holdings), Ltd., take pleasure in announcing that MR. C. R. PRESTON has been appointed a director of the company. At the same time, MR. J. C. M. PETRIE and MR. C. R. PRESTON were appointed joint assistant managing directors. Mr. C. R. Preston will shortly relinquish his position as secretary when MR. P. BAKER rejoins the company in that capacity on August 7, 1956.

MR. W. W. BURDITT has recently been appointed Southern Area Contracts Sales Manager of Permanite Limited, roofing felt and asphalt manufacturers and contractors.

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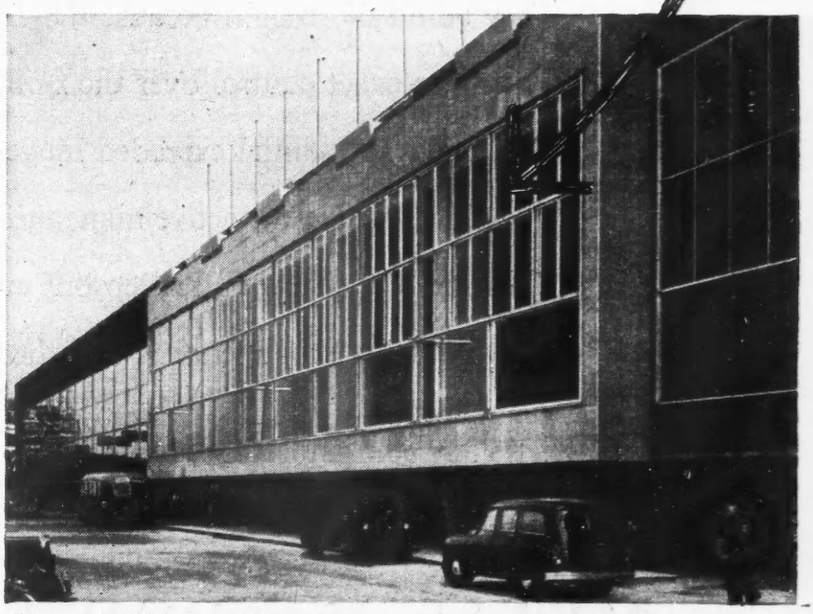

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# TOWN PLANNING DECISIONS

## *Minister Approves Scheme for Redevelopment of Lion Hotel Site, Guildford*

WHETHER the Lion Hotel, High-street, Guildford, was a building of special architectural and historical interest and ought to be preserved was one of the matters discussed in the course of a public inquiry into an appeal by Lion Hotel (Guildford), Ltd., against the refusal of the Guildford Borough Council to allow them to demolish the hotel and erect shops and offices on the site. The appeal was the subject of an inquiry held at Guildford in February last, before Mr. H. G. Warren, an Inspector appointed by the Minister of Housing and Local Government. The company also opposed the Guildford Building Preservation Order (No. 2), 1955, which the Council asked the Minister to confirm, and which would have the effect of preserving certain portions of the hotel.

On behalf of the appellants, MR. GEOFFREY LAWRENCE, QC, said that his clients had been reluctantly compelled to consider whether the site could not be put to some more economic use which, at the same time, would not do violence to the amenities and character of the town. Such a use would inevitably have to be that of shops, for which use the site was primarily zoned, with offices above, and with those considerations in mind they entered into negotiations with Messrs. Woolworths, whose existing premises on the opposite side of the High-street were hopelessly out of date and inadequate to their needs, for the sale to them of the Lion Hotel site, subject to planning consent being obtained. The company's outline application, however, was refused by the Borough Council who, perhaps as a corollary to their refusal, proceeded to make a building preservation order upon such parts of the hotel premises as were included in the list of buildings of special architectural or historic merit compiled by the Minister under Section 30 of the Town and Country Planning Act, 1947.

For the reassurance of those who might look upon these proposals with some degree of misgiving, counsel said he wished to emphasise that neither his clients nor Woolworths wished to do anything which would destroy the amenities of the town in general or the character of the High-street in particular. Before the present appeal was decided upon at all they sought the advice of Dr. Thomas Sharp, LRIBA, and gave him the utmost liberty to consider the matter entirely objectively. If his report had been unfavourable the proposed development would never have been pursued.

In fact, however, it was favourable to the project and his view had been supported by Mr. Sydney Tatchell, FRIBA.

### *Grounds for Rejection*

It was interesting to see the grounds upon which the application was rejected; they were (1) that it would involve the demolition of a hotel in circumstances where there was a shortage of hotel accommodation in the town; (2) that it would be detrimental to the amenities of the High-street because it involved the demolition of a building listed as being of architectural and historical interest; and (3) that it would increase the traffic congestion in the town centre. His broad submission was that none of those three grounds could justify refusal of planning consent, in view of the fact that the development proposed conformed with the provisions of the Development Plan and it was, no doubt, because they realised the weakness of their grounds of refusal that the council subsequently made a building preservation order on part of the building—not, he imagined, so much as a second line of defence as the real rampart which they proposed to man in defence of the Lion Hotel.

The Council's contention that the proposed development would involve the demolition of the hotel in circumstances in which there was a shortage of such accommodation was not a valid ground of objection from a planning point of view. If it were, it would mean that a planning authority was entitled to control the balance of trade in any main shopping area as between the various trading interests. A planning authority was not a trade licensing authority and it was a misconception to think that considerations of hotel shortages were germane to those considerations which were relevant to a planning inquiry.

The first witness on behalf of the appellants was DR. THOMAS SHARP, MA, LRIBA, MTPI, town planning consultant. Dr. Sharp expressed the view that the Lion Hotel was a pleasant building but not one which rated very highly from an architectural point of view. If it had been a particularly good building of its kind he would have unhesitatingly opposed the proposal to demolish it for his instincts were clearly in favour of its retention. The building, however, proved to be nothing like so important as he had been led to believe. It stood on the very steepest pitch of the High-street and since its design failed to recognise the fall in the ground level of the site it displayed a considerable length of deadwalling which, in some respects, gave the building an ungainly and somewhat unsatisfactory appearance.

In his view, the Lion Hotel, pleasant though it was, was not a building which ought to be preserved regardless of other needs, however much one might regret its destruction. There had never been any question of his being asked to advise on any specific form of rebuilding, but after he had made his report he was asked by Messrs. Woolworths to advise on the design of the frontage to a store which they proposed to erect if the Minister were to allow the present application. Messrs. Woolworths had accepted his design and the work would be carried out under his supervision. In order to recognise the differences in height at ground level he had suggested that two individual shops should be built at the upper end of the site, thus reducing the length of the sustained frontage of the main store from 92ft. to 63ft.

He had also suggested a slight break in the building line in order to increase the pavement width in front of the store. The three units comprising the total frontage of the site should possess the atmosphere of a country town High Street and ought, in his opinion, to be essentially modern buildings. There was nothing to be gained and everything to be lost by trying to give them a period air. As to the general frontage of the main store, Messrs. Woolworths had agreed that there should be no fascia in the ordinary sense of the word.

He had attempted to design a frontage which would be suitable to this particular site in this particular street and within what he regarded as the essential principles of townscape. In his view it could not possibly be argued that the existing building, though modestly pleasant, had any historical influence because, apart from a few feet of the frontage at ground floor level, it was entirely a building belonging to the present century.

In cross-examination, the witness said he thought he had designed a satisfactory replacement which avoided the one major defect in the existing building, namely a long, sustained frontage which did not take into account the rapid drop in ground level. He would regret to see the "Lion" disappear but did not consider it irreplaceable.

In reply to further questions, Dr. Sharp said he would be content that the present building should remain if there was an economic use for it. He had no particular interest in seeing it disappear.

Further evidence for the appellants was given by MR. SYDNEY TATCHELL, FRIBA. The Lion Hotel, he said, had a pleasant stucco façade but it could not be described as a building of special architectural merit. Only a part of the ground floor of the present building could be considered to form part of the original structure.

In cross-examination, Mr. Tatchell said the successful replacement of the "Lion" depended upon the exercise of good manners in architecture. Provided good manners were displayed he thought an architect could design an acceptable alternative which would harmonise with the other buildings in the street.

### *The Council's Case*

For the Council it was argued that the Lion Hotel was a handsome building, the preservation of which was essential to the character of Guildford High-street, one of the finest streets of its kind in the country. The "Lion" was one of the only two survivors of the famous series of Guildford Inns and Posting Houses which had existed up to the nineteenth century. The long façade, with its continuous balcony and well spaced windows, provided a pleasant break in the shops on the north side of the High-street, and the substitution of a new block of shops and offices for this typically English country town hotel would completely change the character of this portion of the High Street. A further objection to the rebuilding proposal was that the establishment of a new Woolworths store on the site would result in increased cross-street traffic and congestion of the pavements.

### *The Minister's Decision*

The Minister, in the course of his decision, says there is no doubt that this well-known hotel was rightly included in the list compiled under Section 30 of the Act, and that the Council were justified in taking this into account when considering the matter under appeal. The Minister notes, however, that none of the expert witnesses would state categorically that the hotel was a building of outstanding architectural or historic interest. It was said by one witness—and the Minister shares this view—that it

is the combination of the pleasing and spacious front elevation with the fact that there has been an inn on the site for hundreds of years which gives the building what importance it does possess. It is not of great architectural beauty, neither is there anything of particular historic interest inside, and in the Minister's view its preservation cannot be regarded as essential to the character of the High-street. While, therefore, he sympathises with the Council's desire that the Lion Hotel should be retained, he has come to the conclusion that he would not be justified in confirming the building preservation order and he does not propose to do so.

With regard to the proposal of redeveloping the site with shops and offices, the Minister notes that this would be in accordance with the provisions of the Development Plan, and provided goods are delivered to the premises only from North-street (satisfactory arrangements for this are of the utmost importance) he does not think that traffic conditions in the High-street will be worsened.

He attaches considerable importance to the careful design of the shops and offices in keeping with the character of the High-street, and he is confident that the developers will co-operate with the local planning authority to achieve this.

The Minister has decided, therefore, to allow the appeal made under Section 16 of the Act, and to grant permission for the erection of shops and offices on the site occupied by the Lion Hotel, subject to the condition that the means of access and the design and external appearance of the building shall be as may be agreed with the local planning authority or, in default of agreement, as shall be determined by the Minister.

## NFBTE SUMMER MEETING

### Welcome from Minister of Works

WELCOMING members of the National Federation to London at the opening of the summer meeting in the Royal Festival Hall on July 10, the president of the LMBA, Mr. Kenneth C. F. Foster, read the following messages from the Minister of Works, the Lord Mayor and the chairman of the LCC:—

*From the Minister of Works,* THE RT. HON. PATRICK BUCHAN-HEPBURN: "I would like to send my best wishes to the National Federation of Building Trades Employers, now holding its summer conference in London, and to Mr. Hannen, your president, whose position as a leading member of the London Master Builders' Association, quite apart from his distinguished services to the industry as a whole, makes his appointment this year so appropriate.

"My Ministry and I attach the greatest value to the advice given to us by your members, both regionally and nationally, as we do to the results of your interest in research, improved education and other means of reducing the cost of building, which is of vital importance to-day."

*From the Lord Mayor of London,* ALD. CUTHBERT L. ACKROYD: "I offer a warm welcome to all those who are attending the summer conference in London. Please convey my best wishes for the success of their deliberations and, at the same time, an enjoyable visit to the Metropolis."

*From the Chairman of the London County Council,* THE RT. HON. MRS. H. C. BENTWICK, JP: "It gives me great pleasure to welcome to London the representatives of a body which has done so much to complete the rebuilding of our cities since the war. The members of the London Master Builders' Association have worked in close and fruitful partnership with the London County Council in the execution of its great housing and school-building programmes over the last ten years and we keenly appreciate that collaboration. I wish your conference every success."

## LCC

### Minimum Coats of Paint

AT a meeting of the Council, on July 3, MR. RONALD H. HOUSEMAN asked the chairman of the Housing Committee if the Council's code of standards for outside paintwork on housing estates prescribed a minimum number of coats of paint for doors and windows, and what was the number considered necessary. MR. W. G. FISKE replying said that for new work four coats were necessary and were prescribed, a priming coat, two undercoats and finishing coat. For repainting the same standards were kept. This might mean the application of between two and four coats according to the condition of the old paint.

### Transferring Housing Applications

REPLYING to a question by MR. MARTIN BOND, Mr. Fiske said that he had been kept informed of the negotiations in the Midlands about making it possible for housing applicants to transfer their applications from one local authority to another. These discussions had arisen as a consequence of the recommendations made by the Central Housing Advisory Committee.

Asked by Mr. Bond if he would consider initiating similar negotiations in the greater London area, Mr. Fiske said that the matter, with others affecting the waiting list, was very much in mind. It was the subject of a passing reference in a report on the waiting list which would be presented to the Housing Committee in the near future.

### Compulsory Land Acquisition

MR. R. E. GOODWIN, chairman of the General Purposes Committee, replying to a question by MR. GEOFFREY RIPPON, said that it was not possible without undue expenditure of time and labour to give precise figures of how many acres of land had been acquired by the Council since the end of the war, at any given time.

The process of acquisition was continuing daily; the sites required for all services were generally split up into many ownerships.

In those circumstances Mr. Goodwin proposed to give Mr. Rippon the figures in relation to compulsory purchase orders made by the Council and confirmed by the appropriate Minister since the war. The total area of property so included was approximately 9,900 acres, the estimated cost of acquisition being £39,700,000. At December, 1955, the Councils' ownership of land was: In-County, 10,156 acres; Out-County, 16,577 acres, totalling 26,733 acres.

## AGE OF BUILDING LABOUR FORCE

### Encouraging Figures

MR. NIGEL HANNEN, National president, speaking at the half-yearly general meeting of the North Western Federation of Building Trades Employers, at Bury, on July 4, said that of all industrial groups building and contracting was the "youngest" in the make-up of its labour force.

"According to the Ministry of Labour's annual analysis," he said, 59 per cent. of our labour force is under 40 years of age, while the proportion for all industries is 50 per cent. The figure of 59 per cent. is the highest in the country. This analysis is encouraging for it shows that our industry is far from being an 'ageing' one and that recruitment since the war has been much better than some would have us believe."

## BUILDING BOARDS

### New Fire Test Under Consideration

MR. N. C. STROTHER-SMITH, of the Fire Offices Committee, Fire Protection Association, told the annual conference of the British Fire Services Association at Bognor Regis on July 5 that the Fire Research Organisation is considering a new test for building boards. He was giving a paper on "Building boards in relation to fire prevention and construction."

The test, he said, would take into account more accurately the combustible contents of the boards, because of the difficulty that has been created by the wide variation of performance under the British standard No. 476 class one spread-of-flame test. "When this new test is brought out there will be quite an appreciable change in the classification of some building boards."

The test would be much more representative of the ability of the material to spread fire.

### Three Requirements

Mr. Strother-Smith said if building boards were to replace traditional forms of construction and were not to reduce the standards of safety from fire to which we had become accustomed, they must fulfil three requirements: (a) they must not be readily ignited; (b) they must not encourage the spread or development of fire; (c) they must provide the same fire resistance as the construction which they have replaced.

## HOUSING PROGRESS REPORT

### Figures for May

THE Housing Summary presented to Parliament as a White Paper* jointly by the Minister of Housing and Local Government and the Secretary of State for Scotland, shows that the number of permanent houses completed in Great Britain during May was 25,845 compared with 24,934 in May, 1955.

In the first five months of 1956, 116,540 permanent houses were completed compared with 128,663 in the same period of 1955.

*Cmd. 9796, Housing Summary, May 31, 1956. HMSO, price 3d.

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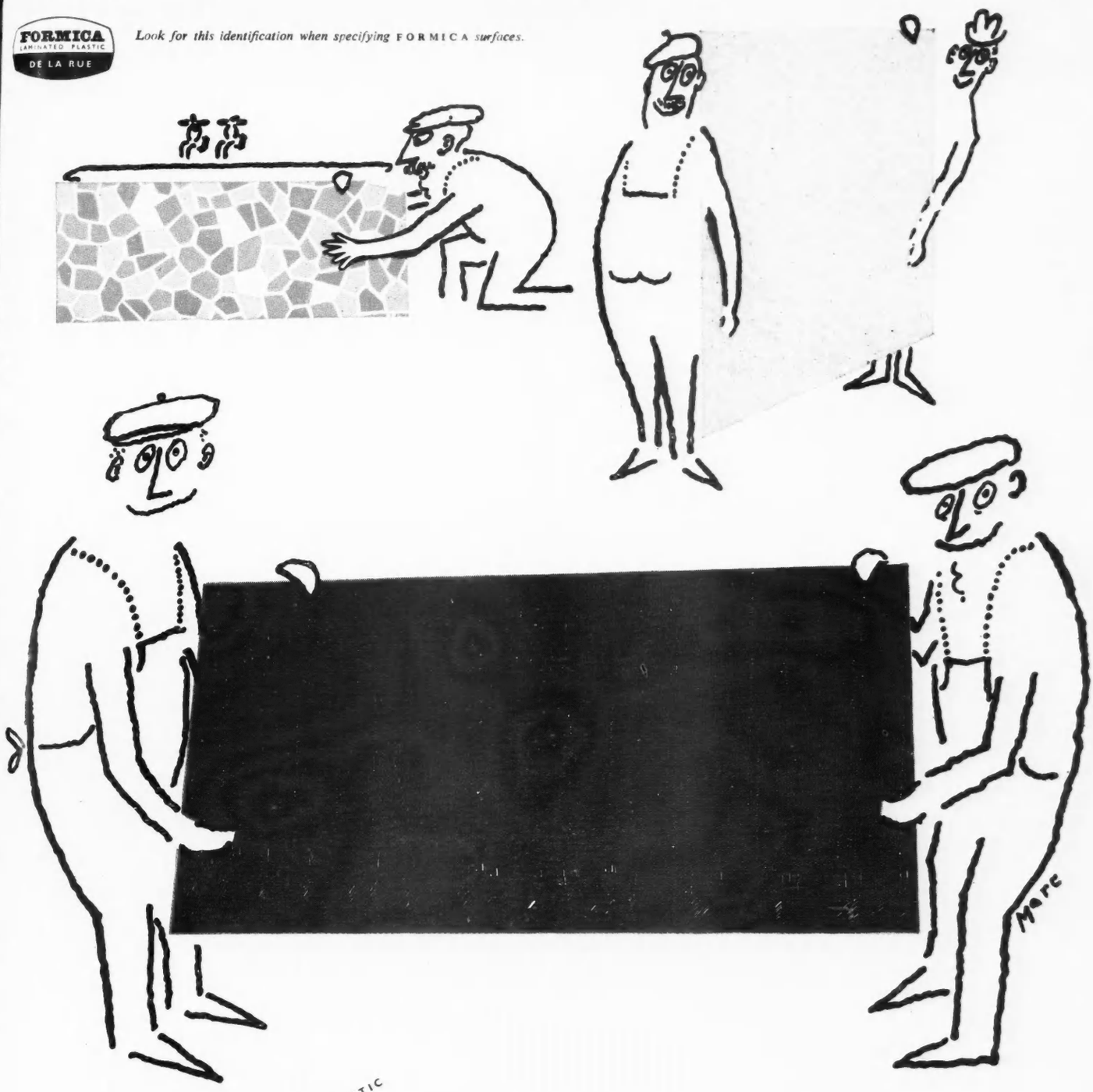


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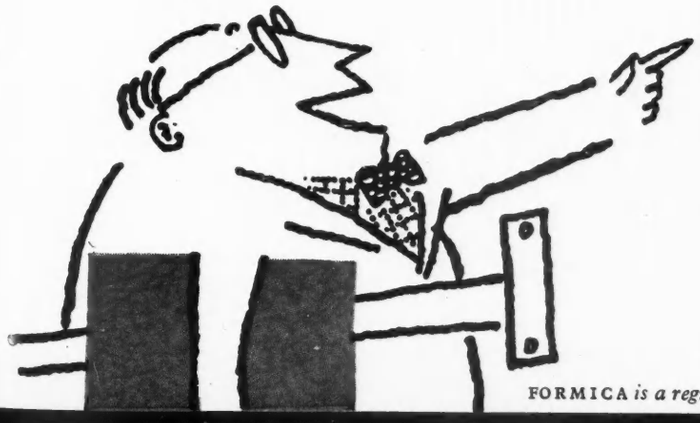

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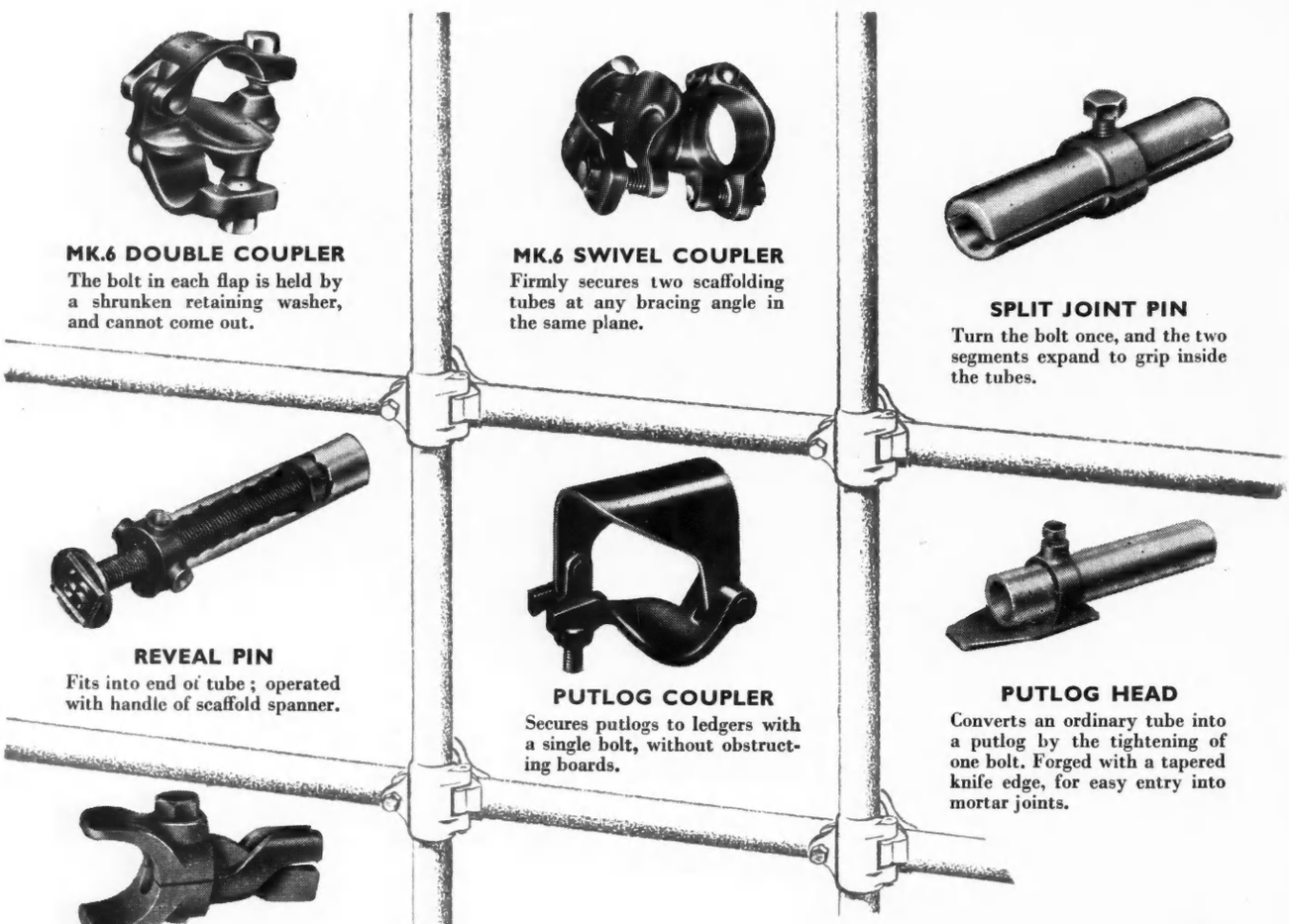



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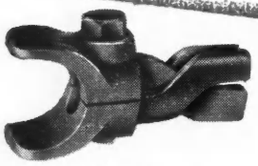

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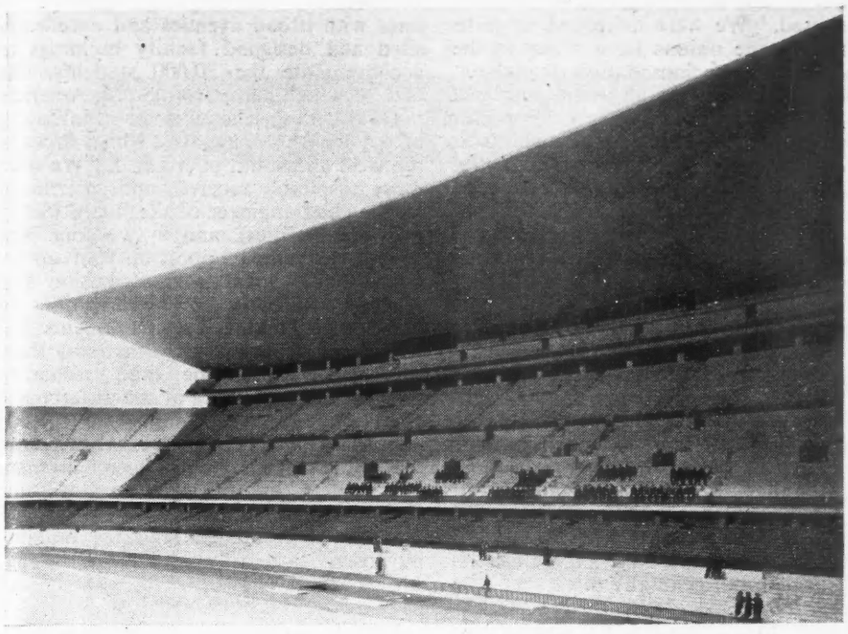

*Model of the new stadium for Barcelona Football Club.*

# BUILDING IN SPAIN

## Some Impressions of a Recent Visit

**By ROBERT W. PORTER, MBE, FCIS, ASAA, AIMTA**
**(Director, Eastern Federation of Building Trades Employers)**

WHEN the Eastern Federation of Building Trades Employers selected Spain for their fourth official visit abroad there were those who asked: "What do you expect to see in Spain?"

Whatever our expectations may have been, they were certainly exceeded in a 14-day visit in the second half of May. While in Madrid we were most hospitably received by the Agrupacion Nacional de Constructores de Obras Publicas (National Federation of Public Works Contractors), whose president, Senor Ramon de Caso, could not have done more to make us welcome. An equally cordial reception was accorded us at Barcelona, where Senor Antonio Carbonell (president, Catalonian Public Works Contractors Federation) and his colleagues gave us further evidence of real Spanish hospitality and courtesy.

Conditions in industry generally are subject to more State control than in Britain. For example, a minimum national wage is fixed by the Government, although building contractors generally pay above this. In building there is a working day of eight hours. When overtime is worked (and this seems to be the rule), the first two hours are at plain time rates, the second two at time-and-a-quarter, and the next two at time-and-a-half. The pay of top tradesmen is about 7s. 6d. per day, unskilled men receiving between 4s. and 5s. per day.

Contracts are generally awarded on open tendering, although on certain occasions selective tendering is used. There is a main contractor with specialist trades sub-let.

We found the Spanish approach to building standards to be very similar to the Italian. The workmanship was often rough, with some ingenious improvisations, but the finishes were generally good. In Madrid, external facings of concrete slabs and granite were in common use, particularly in the more elaborate buildings in which marble and mosaic often gave the interior a cool and elegant appearance. The main form of construction in large buildings was reinforced concrete with hollow block partitions, and although we saw no prestressed work we were told that prestressing was sometimes used for floor joists, beams and floors. Joinery work was good; timber was generally employed for scaffolding, shuttering, etc. Some of the buildings visited, however, had practically no external scaffolding, cradles being used for finishing. There were the inevitable incongruities—ready-mixed concrete being delivered alongside other materials conveyed by donkey carts.

Madrid, in particular, was the scene of intense building activity, with men working steadily for long hours, and we were fortunate in seeing in both Madrid and Barcelona a good cross-section of current building projects.

### An Interesting Project

In the capital, our first call was at the Montepio de la Construccion, the architect of which (Senor Emiliano Castro) was awarded the prize of the Building and Concrete Research Institute. This reinforced concrete framed building was being constructed as an investment for the building industry pension fund, the first two floors to be occupied by the administration. This is a compulsory fund with a one and a half per cent. employers' contribution and a half per cent. workers' contribution. Subject to certain conditions, building workers can retire at 64, on a percentage of their pay related to service.

The remaining 12 floors of this building, started 18 months ago and now three months off completion, will be let as flats which are attractively fitted and have fine balconies with an excellent view of the city.

A striking public building was the new headquarters of the Ministries of Public Works, Interior, etc., in the Paseo de la Castellana. Madrid, when rebuilt (the damage in the Civil War was very great), will certainly be a city of fine public buildings, most of which are in a modified classical architectural style. This new Ministry building was started just before

*The Montepio de la Construccion Building, Madrid. Architect, Sr. Emiliano Castro.*

the outbreak of the Civil War in 1936, and it was not until 1940 that work really got under way. Even then it will be 1960 before the contract is complete, the present estimate of cost being some £8,000,000. The building is eight storeys high with an overall length of 1,550 ft. We were shown round by the chief architect, after seeing in his office perspective drawings of a particularly high standard. It was interesting to see that part of the building was steel-framed, the architect explaining that he much preferred this, although the cost of steel made its general use prohibitive. As in other public buildings, granite facings were being used.

### *A Striking Building*

When finished, one of the most striking buildings in Europe will be the Torre de Madrid in the Plaza de Espana. This reinforced concrete building, started in March, 1955, and due to be completed in December, 1959, will have 36 floors. With a height of 430 ft. (65 ft. higher than St. Paul's), it should be the highest building in Europe. It is being built for a property company, the Compania Inmobiliaria Metropolitana. The architect Julian Otamendi, the consulting engineer, Carmelo Monzon, and the contractor, Agroman, were all present when we visited the site, and afterwards in the architect's office we examined the drawings and a scale model. This building rests on 16 ft. of solid rock, and only 3 ft. of excavation into the rock was necessary. The building, estimated to cost £1½m., will be occupied in due course by shops, offices and flats.

One of our visits took us to the Barrio de la Concepcion (Concepcion Suburb), where we saw flats for workers and the middle classes. Workers' housing projects are under the State, and although no useful figures were available it was obvious that the rent charged was heavily subsidised. We were interested to learn that the trade unions have a say in the allocation of accommodation available.

We were fortunate in seeing a project for middle-class flats by one contractor (Banus) which, when finished, will cost close on £15m. This complete suburb, with plenty of open space, developed from virgin land some four miles east of the centre of Madrid, was started some four years ago and 3,000 flats are already occupied. A further 5,000 will be completed by 1962, the average labour force at present being 1,000 men. Most blocks were five storeys in height, but a central building with a shopping centre will have 16 floors. The structure was of reinforced concrete with brick cladding rendered in coloured cement above first floor level, up to which there was artificial stone facing. Brickwork was rough but the rendering was good. Output for bricklayers was about 600 bricks in eight hours. All concrete mixers were electrically driven, but generally there was little mechanisation.

A visit to a completed flat showed the finish to be good, the design excellent (balconies were widely used), and the general amenities on a very satisfactory level. The rooms were 9 ft. high with coving in both walls and ceilings.

The financial arrangements proved interesting—there is a 50-year State loan at 3 per cent., payable on half the cost to the contractor as work proceeds. The flats are for sale and liability for the State loan is taken over by each purchaser. The remaining 50 per cent. is repaid by the purchaser to the contractor over 15 years.

### *Madrid's Amenities*

Even a brief tour of Madrid gives the impression that here is a magnificent city still in the making. University City, for example, the front-line in the Civil War, is being rapidly built on most modern lines with broad avenues and excellently sited and designed faculty buildings to accommodate the 20,000 students, one fifth of which come from South America.

One striking scheme is the canalisation of the River Manzanares, which flows to the west and south of Madrid. We were most hospitably received and entertained by the chief engineer of the Board (Senor Luis de Fuentes), and a two-hour visit gave an excellent opportunity of appreciating how great a contribution this scheme will make to the amenities of Madrid. Tree-lined embankments and gardens now stand where formerly there was waste land, the land reclaimed through the narrowing of the watercourse being enough to accommodate 100,000 people. It will be some years yet before the whole 6½-mile length of embankment is complete, but the total cost of some £5m. is likely to be recovered through the sale of reclaimed land for building purposes.

### *Football Stadia*

Perhaps our changing football fortunes caused our Spanish friends to arrange special visits to the football stadiums in Madrid and Barcelona. The Barcelona Football Club intend to construct what they believe will be the biggest football stadium in the world. Stage 1, to cost about £1m., on which over 500 men are at present employed, will be completed in 18 months and will accommodate close on 90,000. Stage 2, to increase the capacity of the ground to 150,000, will cost a further £½m. The three-tiered stadium itself will be over 300 yards long and 200 yards wide, but the entire scheme will cover over 60 acres.

In retrospect, several impressions stand out clearly. In design, there was much to admire which was bold, imaginative and vigorous, and which will make Madrid in ten years' time one of the outstanding cities of Europe.

*Two views of the new Concepcion Suburb, Madrid.*

January February March April

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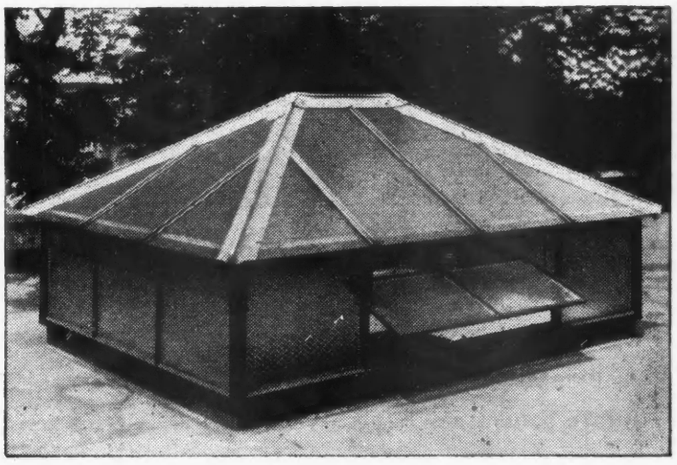

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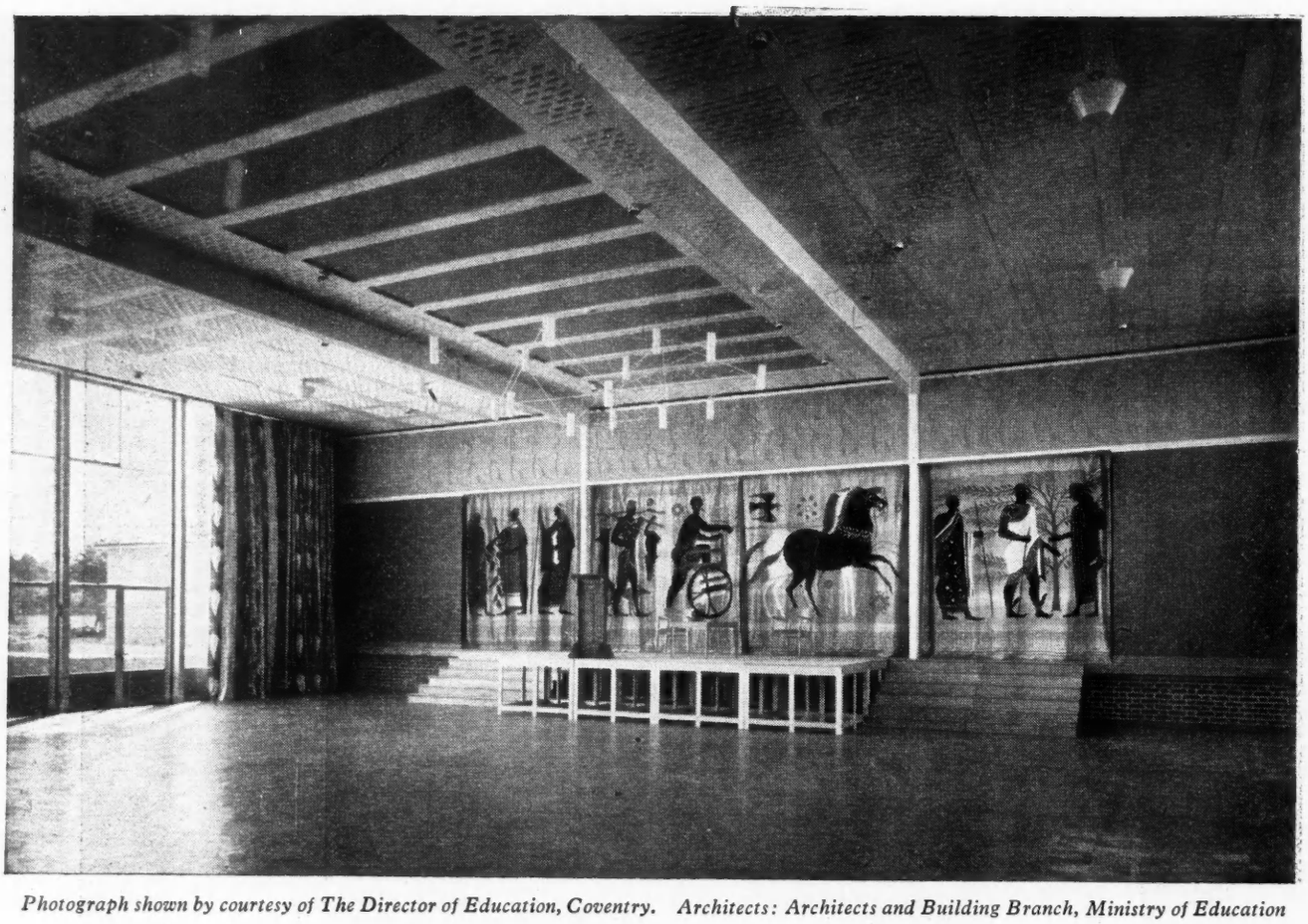

*Photograph shown by courtesy of The Director of Education, Coventry. Architects: Architects and Building Branch, Ministry of Education*

*The Woodlands School, Broad Lane, Coventry*

The post-war schools building programme is providing, all over Britain, a rich heritage for future generations. The Woodlands School, Coventry, for example, combines functional planning at its best with varied and interesting form, texture and colour. Educational authorities were amongst the first to experiment boldly with colour in building and Gay's, as one of the oldest paint manufacturers, were pleased to co-operate in the evolution of the original Archrome Range. Gay's Paints have been selected for the enrichment and preservation of many of these schools.

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# *Nominated Suppliers and the Revised Form of Tender*

### *A FEW QUERIES ON THE SUPPLY OF FAULTY MATERIALS*

***By a Correspondent***

THE contentious problem of a nominated supplier's action in connection with faulty material and subsequent liability for consequential damage has long been argued. Recently, a modified form of Tender has been sanctioned by the Royal Institute of British Architects, the Royal Institution of Chartered Surveyors and the National Federation of Building Trades Employers after discussions with the National Council of Building Material Producers.

It is claimed that, so far as the nominated supplier is concerned, the new Form is less onerous in respect of liability for consequential damage. The new Form (copies of which are obtainable at 2d. each) does appear to restrict the liability of the supplier of faulty goods, but there are a number of aspects which, to my mind, are not entirely satisfactory from the contractor's angle. It is not proposed to deal with them all here, but rather to pinpoint one which seems to leave matters in rather a debatable manner so far as the principal contractor is concerned.

Clause 5 of the new Form is as follows: "We agree to make good by replacement or otherwise any defects in the materials or goods supplied by us which appear within . . . months from the date of delivery and to bear any reasonable expenses incurred by the principal contractor under the terms of the main contract for the direct consequences of such defects, provided that:—

(1) Where the materials or goods have been used or fixed such defects are not such that examination by the principal contractor ought to have revealed them before using or fixing;

(2) Such defects are due solely to defective workmanship or material in the goods supplied by us and shall not have been caused by improper storage on the site or by misuse or by any act or neglect of either of the parties to the main contract or of any person/s for whom they may be responsible."

Is it too pertinent a question to ask "Who is to be the deciding authority concerning defects of a latent nature?" Does a loophole exist here which permits a measure of argument? Presumably, when goods are received and signed for in good condition, the main contractor is signifying the fact that the material in question is suitable for the use contemplated *at that time*. Could this argument be used against him at a later date in the event of latent defects appearing? Will it be argued that he ought to have known that a certain material was possibly in the process of developing a fault when his servant signed for it? Perhaps it may be thought that the onus should rest with the clerk of works in some minds; surely that worthy individual has enough to do already? The rejection of faulty material is often within his jurisdiction, sometimes directly, sometimes in collaboration with the architect.

The term "improper storage" is somewhat elastic. Even on the most carefully organised site, storage for lengthy periods becomes necessary with consequent risks. Who is to be the arbiter in the matter of what constitutes proper storage? Are suppliers going to issue instructions on correct storage procedure when delivering goods?

I believe that an earnest attempt has been made to frame conditions acceptable to all parties, and basically I think this has been achieved. I do feel, however, that there is a certain "looseness," at least, in the paragraph to which I have referred, which warrants some care. I am certain that reputable suppliers are always prepared to replace faulty material, but I feel equally strongly that no loopholes should be left for the occasional "wriggler." I may be unduly pessimistic, possibly over-cautious, but if I am honest with myself, I cannot say that I feel completely happy, particularly about part (1) of Clause 5 of the new Form.

# *LAW REPORT*

### *Surveyor's Claim for Damages: Appeal Dismissed*

COURT OF APPEAL

BEFORE LORDS JUSTICES DENNING, BIRKETT AND PARKER

**Barker v. F. Hardman (Builders), Ltd.**

THE Court of Appeal on June 29 dismissed with costs an appeal by Mr. Dennis Quarendon Barker, 45, of Manor-road, Beckenham, Kent, from a judgment by Mr. Justice Pearson, who dismissed his claim for damages from injury he suffered at work.

Mr. Barker, who lost the sight of his left eye as a result of a blow from the handle of a concrete-mixer and was now almost blind (his right eye being weak), had alleged that the accident was due to negligence or breach of duty by F. Hardman (Builders), Ltd., of Angel-road, Brixton, by whom he was employed.

Mr. Barker conducted his appeal and applied for permission to call further evidence.

Giving judgment, Lord Justice Denning said Mr. Barker was employed in a supervisory capacity as a surveyor by Hardman's on a school site at Mitcham, for which the builders had a contract.

A second-hand concrete mixer was brought to the site, and when in July, 1953, Mr. Barker tried to start it, the handle flew off and struck him in the eye. As a result of the accident he had been unable to continue his profession as a surveyor.

The application for further evidence was refused, as his lordship did not think it would affect the decision in the action.

On the question whether the employers exercised reasonable care his lordship said it was not negligence to buy or use a second-hand machine. This machine was not dangerous and danger to a person could not reasonably be foreseen. His lordship added that the judge dealt with the matter properly and that the court could not upset his judgment. Lords Justices Birkett and Parker agreed.

# *Electric Cable on Site*

### *FAILURE BY BOARD TO ANSWER LETTER ALLEGED*

"THIS is a most unfortunate case, and it is fortunate that no one was electrocuted," Judge MacMillan said at Shoreditch County Court on July 6.

He had before him a part heard action for damages, limited to £100, brought by A. Lavender and Co., Ltd., plate and sheet glass merchants, of Homerton, against Rush and Tomkins, Ltd., builders, Sidcup, Kent, for alleged negligence when defendants' mechanical grab on a housing site damaged an electric cable. Work was stopped in plaintiffs' factory for three hours.

Judge MacMillan entered judgment for the plaintiffs for £28 18s. 9d., the agreed amount for special damages, and awarded them ⅔ of the costs.

Evidence was given at the previous hearing by George Willey, an employee at the plaintiffs' factory, to the effect that he was looking out of an upper window of the factory on July 26, 1955. Defendants' mechanical grab was at work on a housing site near the factory when it pulled up a live electric cable.

Joseph Emery, a maintenance engineer for the London Electricity Board, said that partly demolished houses were on the site and the live cables had been removed. Witness had received no indication that the defendants were going to build on the north side where the cable was pulled up.

For the defence John Hay, contracts manager for the defendants, said his firm were building houses, flats and maisonettes on the LCC Bentham-road estate on both sides of Wick-road. He had previously written to the LEB about clearing the cables on the site. All he received was a formal card of acknowledgment.

At the resumed hearing on July 6 Mr. David Edwards, counsel for the plaintiffs, said the case had been adjourned for the LEB to produce a representative to explain why the defendants' letter of April 19, 1955, asking whether the site was clear of cables, had not been answered.

James Staple was then called. He said he was an electrical engineer employed by the LEB. His department at the Downs-road depôt, Hackney, received the defendants' letter for clearing the site, but he had not seen it.

Mr. Roger Willis, counsel for the defendants, then submitted that before His Honour could find the defendants negligent, he must be fully satisfied. If his clients had pressed for a reply to their letter, they might have got an adverse answer. The letter was to confirm that the cables had been cleared.

Mr. Edwards submitted that the Bentham-road Estate was in two parts, north and south. Bentham-road ran through the south part. Counsel contended that Mr. Emery had referred to the south part as being cleared. He was never asked about the north part. The letter was sent to guard against this unfortunate mistake.

Judge MacMillan said he had formed the view that some confusion arose between Mr. Emery and the foreman on the job about the clearance. It was also quite plain that the LEB had failed to answer a most important letter.

# The Builder Review of PLANT & MATERIALS

### *Veneered Plasterboard*

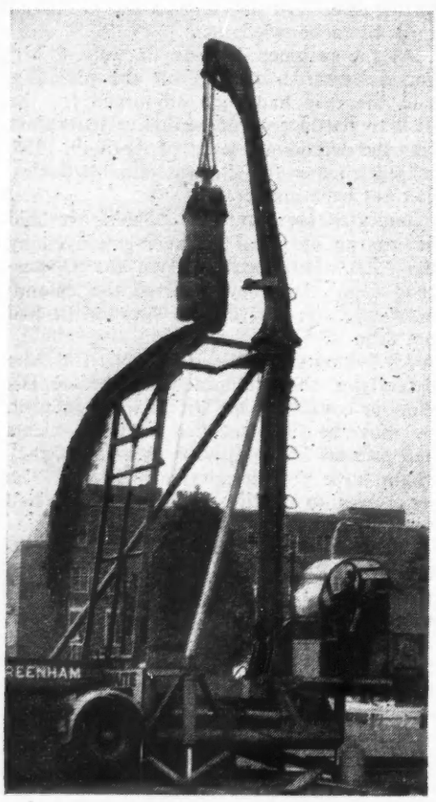
SHARP and continuous rises in fuel costs have to-day stimulated a considerable interest in new methods of thermal insulation. Insulating plaster boards have been developed by The British Plaster Board (Manufacturing), Limited, in conjunction with Venesta, Limited, of Vintry House, Queen-street Place, London, EC4, rollers of alluminium-foil are designed to provide economical insulation and to reduce the risk of fire. The basis is gypsum plaster board which varies in thickness from ⅜ in. to ½ in. with .009 mm. gauge foil laminated to one side of the board with a nitro-cellulose coating which not only assists adhesion, but is also a corrosion inhibitor.

### *New Refrigerator*

A new "built-in" type refrigerator, the M.170, is now being marketed by Electrolux Ltd., 153, Regent-street, W1. Capacity 1¾ cu. ft., gas or electric operation.

### *Attachments for Shovel*

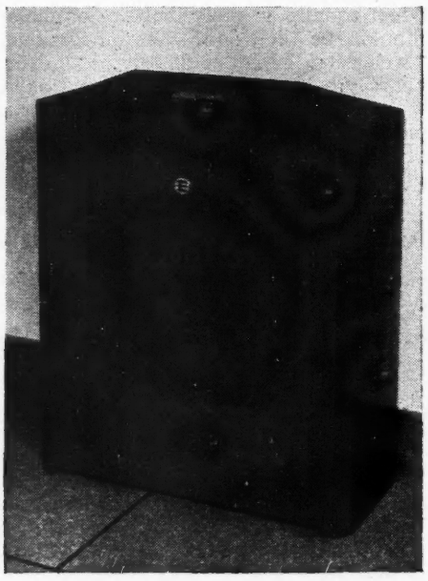
Three new attachments for the Chaseside Loadmaster are now on the market. Two are the crane hook and bulldozer blade. Both these items can be fitted to the scoop, it is said, in a matter of minutes by securing fixing clamps. The third attachment with a more specialised use is a rock scoop.




*Planted pile borer.*

### *New Tractor*

Trials with pre-production models of a new Vickers tractor have commenced, it is announced. The machine is powered by a Rolls-Royce supercharged four cylinder oil engine, delivering 142 belt horse-power. Five forward and four reverse gears are provided, giving the tractor operating speeds up to 8.85 mph. The weight is approximately 26,300 lbs.



*Two models have been produced of Ekco "Thermostors" made by E. K. Cole, Ltd., Southend-on-Sea, Essex. These models for thermal storage heating have automatically controlled pre-set time switches. A safety thermal cut-out is incorporated in the lid of the casing to prevent over-heating. Each "Thermostor" is housed in a strong sheet-steel casing with a bronze stove enamel finish. All wiring connections are easily accessible since the terminal block can be removed from the heater.*

### *Folding Walls and Doors*

Where space is the first consideration—for example in hotels, restaurants, showrooms and offices—a flexible system of partitioning is provided by "Modernfold" walls and doors made by Home Fittings (Great Britain), Ltd., 25, Hanover-square, W1. No floor track is needed as the system uses an overhead track.

### *Pile Borer*

The Braithwaite Planted Pile Borer, shown in the picture on left in action at Chiswick roundabout, has a dual action. While it is excavating the soil it drives a circular metal tube 15 ft. long and 4 ft. 6 in. in diameter into the ground. Several sections of tube can be forced down one on top of the other to a depth of 80 ft. to 100 ft. The unit is driven by a 120-h.p. diesel engine which also drives a 30-ft., 10-ton crane. There are several fitments such as grabbers of various sizes, borers, and so on.

## *TRADE NEWS*

### *Staff Appointment*

Mrs. Jean L. Stewart, formerly of the ELMA Lighting Service Bureau, has joined the staff of Philips Lighting Design Service.

### *Three Leaflets*

Three leaflets have been issued by Conex-Terna, Ltd., Whitehall-road, Great Bridge, Tipton, Staffs, on the qualities of their various plumbing fittings. One leaflet deals with the use of Conex fittings for polythene piping.

### *Domestic Copper Tubes*

A revised leaflet, "Copper Tubes for Domestic Water Services," has been issued by ICI, Imperial Chemical House, Millbank, SW1. It gives details of the range of ICI copper fittings for use with light-gauge copper tubes, and the various other fittings for specific domestic uses.

### *Publications for Library*

The technical library of Colt Ventilation, Ltd., Surbiton, Surrey, is being reorganised and the firm would be pleased to receive current books, catalogues, trade publications and other data on engineering equipment, machinery and tools, office equipment, fans and general ventilation equipment.

### *Trade Tour*

The chairman and managing director of the Rugby Portland Cement Co., Ltd., Mr. Halford Reddish, set off last month on a visit to some of the company's subsidiaries. The 45,000-mile tour will cover the West Indies, Canada and Australia and also the USA and other territories to which the company exports cement.

### *Metal Window Catalogue*

Maclean and Co. (Metal Windows), Ltd., wish to correct the notation against the illustration on page 30 of their Purpose Made Window Catalogue and state that the architect in this case was Mr. Eric H. Davie, FRIBA, AMTPI, London, W1.

### *Chipboard Announcement*

A new and progressive policy has been announced by British Plimber, Ltd., of 19, Albert Embankment, SE11, wherein the prices of their materials are reduced from 1s. 1d. to 11d. a square foot for the ½-in. thickness, and from 1s. 4d. to 1s. 3d. a square foot for the ¾-in. thickness. The density of their material has been reduced from 50 to 45 lb. cu. ft. Another part of the new policy is the planning of a new automation-operated factory, the building for which has already been purchased at Rainham, Essex. Production is expected to begin next year, the full capacity will be in the region of 600 tons a week, compared with 150 tons a week from the present factory in Lambeth.

### *Oil and Gas Engine Review*

Number 191 of a series of periodical reviews of matters concerning Crossley marine, locomotive and land type oil engines, also gas engines and gas producing plant, has been published by Crossley Brothers, Limited, Manchester, 11.

# Where Humidity is 90% plus..

★

## Beacon Zinc Metallisation gives complete protection against Rust and Corrosion

Make no mistake, it is in the Tropics where steel windows receive their greatest punishment.

Take Dar-es-Salaam, for example. Humidity often in excess of 90% — terrific rainstorms in the monsoon season — a salt-laden atmosphere all the time. Could conditions be worse? We doubt it.

Yet in Dar-es-Salaam, as in a score of other cities along the East and West African coastline, Beacon Windows have proved to architects and builders that the ravages of rust and corrosion can be prevented. They have seen for themselves—and our ever-increasing export orders confirm it—how the Thompson Zinc Metallisation Process gives protection against the elements.

One big advantage of The Thompson Rustproofing Process is that it is carried out *after* assembly. Under the flame of the oxy-propane metallising gun the whole window receives a generous coating of zinc — 99·5% pure — as an integral unit. As a result every Beacon Window is guaranteed free from distortion and to fit accurately on all four sides to exclude all draughts.

BEACON
METAL WINDOWS

*Member of the Metal Window Association*

**JOHN THOMPSON BEACON WINDOWS LTD · WOLVERHAMPTON**

# Hey Prestik!

WHAT A SAVING OF TIME AND TROUBLE!

**JOINTING, SEALING, BEDDING**

. . . all can now be done *and better done* with a remarkable saving in time! The new PRESTIK is astonishingly simple and clean to use. No special skill or special tools needed. Just reel off as needed and press it into the joint, for a really permanent, weatherproof job *outside or inside*. Ask your Builders' Merchant for PRESTIK. Or write to us for sample.

**PRESTIK makes quick work of:**

**MASONRY**—Jointing gutter sections and coping stones. Bedding and jointing concrete blocks and panels.

**PRE-FABRICATION** — Bedding and Jointing roof sections. Sealing joints in sectional buildings.

**FLOORS** — Sealing cable duct covers. Sealing skirting board joints.

**WALLS and CEILINGS** — Sealing wallboard joints (with cover strips). Sealing glass bricks to door and window frames.

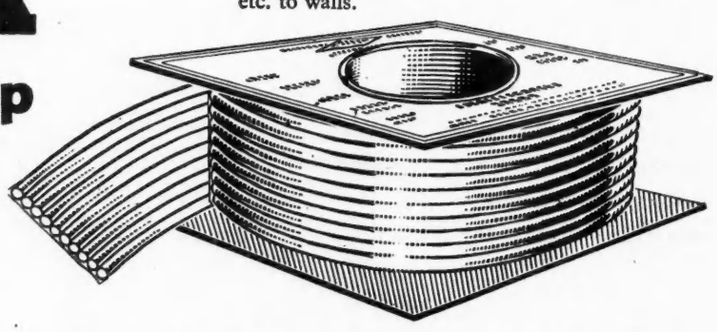
**DOORS and WINDOWS** — Sealing door and window frames to brickwork. Bedding window frames and window boards.

**SANITARY WARE** — Sealing baths, washbasins etc. to walls.

white

# PRESTIK

## Builders' Sealing Strip



*made by the* **Bostik** *people*

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B.B. CHEMICAL CO., LTD., ULVERSCROFT ROAD, LEICESTER.

*The Builder*

# CURRENT PRICES OF MATERIALS

THE information given on these pages has been specially compiled for *The Builder* and is copyright. It is the intention that the details given should indicate fair average prices of materials, not necessarily the highest or the lowest. The prices apply to large quantities of materials loaded at works, delivered at London Stations or at site in London Area as stated. Prices for smaller quantities ex merchant's warehouse will necessarily be higher so as to include the stocking and handling costs involved. Due to the exceptional circumstances now prevailing it is recommended that the prices of materials should be confirmed by inquiry from suppliers and merchants.

## AGGREGATES AND SAND

Delivered site in full lorry loads. Average of prices for Boroughs of Westminster, Paddington, Holborn and St. Pancras.

| | | £ | s. | d. |
|---|---|---|---|---|
| Pit Ballast | per yd. | 1 | 6 | 0 |
| Pit Sand | " | 1 | 3 | 5 |
| Washed Sand | " | 1 | 6 | 7 |
| ¾ in. Shingle | " | 1 | 2 | 11 |
| ¾ in. Broken Brick | " | 1 | 0 | 6 |
| Pan Breeze | " | | 10 | 9 |
| Fine or Coarse Foamed Slag Aggregate | per ton | 3 | 0 | 9 |

2 yds. of fine and 2.6 yds. of coarse per ton.

## CEMENT, etc.

Including non-returnable jute sacks or paper bags.

| | | | | |
|---|---|---|---|---|
| Best British Portland Cement. Standard Specification delivered Charing Cross area. | | | | |
| 6-ton loads and upwards, site | per ton | 5 | 4 | 6 |
| 1 to 6 tons, site | " | 5 | 16 | 6 |
| Rapid Hardening Cement in 6-ton loads and upwards to site | " | 5 | 15 | 0 |
| 1 to 6 tons do. site | " | 6 | 7 | 0 |
| Aquacrete Water Repellent Cement. 32s. 6d. per ton on ordinary cement prices. | | | | |
| Red, Buff or Khaki Colorcrete in 6-ton lots | " | 8 | 1 | 0 |
| Other colours according to colour. | | | | |
| In 4-ton lots from 298s. 0d. to 688s. 0d. per ton. | | | | |
| White Portland Cement | " | 13 | 5 | 0 |
| Under 1 ton | per cwt. | | 15 | 10 |
| 417 Cement (Ultra Rapid Hardening) in 6-ton lots and upwards | per ton | 6 | 17 | 0 |
| Super Cement (Waterproof), 32s. 6d. per ton above Portland Cement. | | | | |
| Cullamix Tyrolean Finish, £11 8s. 0d. to £14 3s. 0d. (1-ton loads and upwards). | | | | |
| Lightning and Ciment Fondu Brands High Aluminous cement, 6-tón lots and up | " | 14 | 15 | 9 |
| Stourbridge Fireclay, 6-ton loads at Railway Depot, London | " | 6 | 12 | 9 |
| Moler Mortar Powder for Flue Bricks (London sites) | per cwt. | 1 | 10 | 0 |

## BRICKS

Full Loads.

| | | | | |
|---|---|---|---|---|
| First Hard Stocks | per 1,000 | 12 | 17 | 0 |
| Second Hard Stocks | " | 11 | 16 | 0 |
| Mild Stocks (Kiln Burnt) | " | 9 | 1 | 6 |
| Mild Stocks | " | 8 | 16 | 6 |

All loaded free into lorry at the works. The question of haulage is still very difficult and prices must be obtained from job to job.

| | | | | |
|---|---|---|---|---|
| 2½ in. Nominal Fletton Bricks to sites in W.C. | | | | |
| District Commons | " | 5 | 15 | 0 |
| Cellular do. | " | 5 | 15 | 0 |
| Keyed do. | " | 5 | 17 | 0 |
| Rustics | " | 7 | 5 | 0 |
| Cellular Rustics | " | 7 | 5 | 0 |
| Single Bullnose Commons | " | 7 | 5 | 0 |
| Sandfaced | " | 8 | 2 | 6 |
| Tuscans | " | 8 | 12 | 6 |
| Saxons | " | 8 | 12 | 6 |
| Golden Buffs | " | 9 | 7 | 6 |
| Best Blue Pressed Staffs (London Stations) | " | 28 | 15 | 6 |
| Do. Bullnose (London Stations) | " | 29 | 9 | 6 |
| Blue Wire Cuts (London Stations) | " | 25 | 19 | 0 |
| Midhurst Lime Bricks (London sites) | " | 10 | 8 | 0 |
| Uxbridge Whites (London sites) | " | 9 | 17 | 0 |
| Special Purpose Sandlime Bricks (London sites) | " | 7 | 14 | 0 |
| 2½ in. Best Stourbridge Fire Bricks (London stations) | " | 27 | 16 | 3 |
| 3 in. do. (London stations) | " | 33 | 8 | 0 |
| 2½ in. Moler Flue Bricks (London sites) | " | 36 | 0 | 0 |
| 2½ in. Machine-made Sandfaced Red Facings (London sites) | " | 15 | 8 | 6 |
| 2½ in. Machine-made Multi Red Facings (London sites) | " | 15 | 13 | 6 |
| 2½ in. Hand-made Sandfaced Red Facings (London sites) | " | 15 | 6 | 0 |
| 2½ in. Hand-made Sandfaced Multi-Colour Facings (London sites) | " | 16 | 1 | 0 |
| Hand-made Sandfaced Cherry Red Facings. Berkshire district (London sites) | per 1,000 | 18 | 11 | 9 |
| Hand-made Sandfaced Multi-Colour Facings. Berkshire district (London sites) | " | 18 | 6 | 3 |
| Rubber Bricks for gauged arches (London sites) | " | 42 | 15 | 0 |
| 2½ in. Surrey Clamp Burnt Multi Stock Facings (London sites) | " | 13 | 6 | 0 |
| 2½ in. Surrey Kiln Burnt Multi Stock Facings (London sites) | " | 14 | 18 | 0 |
| Glazed Bricks (London sites), White, Ivory, Brown— | | | | |
| Stretchers | " | 64 | 0 | 0 |
| Headers | " | 63 | 0 | 0 |
| Quoins, Bullnose and 4½ in. Flats | " | 80 | 0 | 0 |
| Double Stretchers | " | 85 | 0 | 0 |
| Double Headers | " | 77 | 10 | 0 |
| One side and two ends | " | 87 | 0 | 0 |
| Two sides and one end | " | 89 | 10 | 0 |
| Splays and Squints | " | 83 | 0 | 0 |

Cream and Buff £3 extra over White. Other colours, hard glaze, £8 10s. 0d. extra over White. All above prices plus 25% for Best quality and plus 25% less 10% for Second quality.

## PARTITION SLABS, etc.

Delivered Central London Area. (W.C. District).

| | Minimum lorry loads. | | | | | |
|---|---|---|---|---|---|---|
| HOLLOW CLAY PARTITION BLOCKS (Keyed) | | | | | | |
| *2 in. | 140 yds. | per yd. sup. | 4 | 4 | | |
| *2½ in. | 140 yds. | " | 4 | 7 | | |
| *3 in. (3 cavity) | 120 yds. | " | 5 | 4 | | |
| BUILDING BLOCKS (Keyed) | | | | | | |
| *3 in. (6 cavity) | 110 yds. | " | 5 | 6 | | |
| *4 in. (6 cavity) | 95 yds. | " | 6 | 9 | | |
| 6 in. (8¾ in. × 5⅞ in.) | 1,250 blocks | per 1,000 | 26 | 6 | 0 | |
| * Half blocks at no extra charge. | | | | | | |
| CLINKER CONCRETE | | | | | | |
| 2 in. | 100 yds. | per yd. sup | 3 | 9 | | |
| 2½ in. | 85 yds. | " | 4 | 4 | | |
| 3 in. | 75 yds. | " | 5 | 3 | | |
| 4 in. | 55 yds. | " | 6 | 5 | | |
| CRANHAM | | | | | | |
| 2 in. | | " | 6 | 8 | | |
| 2½ in. | | " | 7 | 4 | | |
| 3 in. | | " | 8 | 7 | | |
| 4 in. | | " | 10 | 7 | | |
| 4¼ in. Load bearing quality | | " | 11 | 8 | | |
| MOLER PARTITION BLOCKS | | | | | | |
| 2 in. | 150 yds. | " | 15 | 6 | | |
| 2½ in. | 120 yds. | " | 15 | 9 | | |
| 3 in. | 100 yds. | " | 16 | 0 | | |
| 4 in. | 90 yds. | " | 19 | 0 | | |
| LIGHTWEIGHT CONCRETE BUILDING AND PARTITION BLOCKS OF VARIOUS SOURCES OF MANUFACTURE | | | | | | |
| 2 in. | 100 yds. | " | 5 | 9 | | |
| 2½ in. | 80 yds. | " | 6 | 11 | | |
| 3 in. | 65 yds. | " | 8 | 1 | | |
| 4 in. | 50 yds. | " | 9 | 6 | | |
| 4½ in. | 44 yds. | " | 10 | 2 | | |
| 6 in. | 33 yds. | " | 13 | 8 | | |
| THERMALITE-YTONG PARTITION BLOCKS | | | | | | |
| 2½ in. | 120 yds. | " | 6 | 11 | | |
| THERMALITE-YTONG LOADBEARING INSULATING BLOCKS | | | | | | |
| 3 in. | 100 yds. | " | 8 | 3½ | | |
| 4 in. | 75 yds. | " | 10 | 9 | | |
| 5 in. | 60 yds. | " | 13 | 5 | | |
| 6 in. | 50 yds. | " | 16 | 1½ | | |
| 8½ in. | 35 yds. | " | 1 | 3 | 0½ | |
| FLOOR BLOCKS AND FILLER TILES | | | | | | |
| 3 in. Floor Blocks 12 in. by 12 in. delivered in full lorry-loads | | per 1,000 | 33 | 6 | 0 | |
| 4 in. do. | | " | 35 | 14 | 0 | |
| 5 in. do. | | " | 42 | 10 | 0 | |
| 6 in. do. | | " | 47 | 17 | 0 | |
| 7 in. do. | | " | 58 | 8 | 0 | |
| 8 in. do. | | " | 68 | 9 | 0 | |
| 10″ × 3″ × ⅝″ Filler Tiles in multiples of 10 tiles | per 1,000 multiples | | 56 | 15 | 0 | |
| 12″ × 3″ × ⅝″ do. | do. | " | " | 64 | 10 | 0 |
| 10″ × 4″ × ⅝″ do. | do. | " | " | 71 | 0 | 0 |

## STONEWARE DRAIN PIPES, etc.

The following are the percentages to be added to the Standard List prices delivered London Area.

| | Delivered ex Merchants Wharf or Depot or Manufacturers Works. | | |
|---|---|---|---|
| | Over 2 tons | Over 100 pieces Under 2 tons | Under 100 pieces Under 2 tons |
| Best Quality | +85% | +117½% | +130% |
| BSS Best do. | +10% +85% | +10% +117½% | +10% +130% |
| Tested Quality | +37½% +85% | +37½% +117½% | +37½% +130% |
| BSS Tested do. | +47½% +85% | +47½% +117½% | +47½% +130% |

## STONEWARE DRAIN PIPES, etc.—*continued*

| | | £ | s. | d. |
|---|---|---|---|---|
| 3 in. Land Drain Pipes (in 12 in. lengths) ... | per 1,000 | 11 | 0 | 6 |
| 4 in. do. ... | ,, | 14 | 9 | 6 |
| 6 in. do. ... | ,, | 29 | 19 | 0 |
| 9 in. do. ... | ,, | 57 | 5 | 0 |

## DAMP COURSE

| | | | | |
|---|---|---|---|---|
| Hessian base bitumen 7 lb. per yd. sup. in 24 ft. rolls cut to wall widths in lots of £6 value and over delivered London area ... | per yd. sup. | | 3 | 3½ |
| Asbestos base ditto 7 lb. per yd. sup. do. do. | ,, | | 5 | 2 |
| Lead lined bitumen ditto 9½ lb. per yd. sup. do. | ,, | | 12 | 2 |
| 18 in. × 9 in. British damp course slates ... | per 1,000 | 41 | 12 | 8 |
| 14 in. × 9 in. do. do. ... | ,, | 32 | 0 | 0 |
| 9 in. × 9 in. do. do. ... | ,, | 18 | 2 | 6 |
| 18 in. × 4½ in. do. do. ... | ,, | 19 | 2 | 6 |
| 14 in. × 4½ in. do. do. ... | ,, | 15 | 4 | 9 |
| 9 in. × 4½ in. do. do. ... | ,, | 10 | 5 | 3 |

## STONE

| | | | | |
|---|---|---|---|---|
| Bath Stone— | | | | |
| Monks Park ... | per ft. cube | | 8 | 1½ |
| St. Aldhelm Box Ground ... | ,, | | 9 | 1½ |
| Delivered in railway trucks at South Lambeth B.R. Western Region. | | | | |
| Doulting Stone Random Blocks. Delivered London area | ,, | | 8 | 11 |
| Beer Stone. Delivered London area ... | ,, | | 8 | 5 |
| Portland Stone— | | | | |
| Brown Whitbed in random blocks, 20 ft. average delivered in railway trucks at Nine Elms, B.R. Southern Region ... | ,, | | 8 | 5 |
| Yorkshire Stone—Blue Robin Hood Quality. Delivered to site London in 6-ton lots. | | | | |
| 9 in. × 3 in. Rubbed, weathered, throated and stooled cills ... | per ft. cube | 3 | 17 | 9 |
| 12 in. × 6 in. do. do. ... | ,, | 2 | 15 | 6 |
| 12 in. × 3 in. Plain coping, twice throated ... | ,, | 2 | 3 | 0 |
| 12 in. × 3 in. Weathered and twice throated coping | ,, | 2 | 17 | 3 |
| 14 in. × 6 in. do. do. ... | ,, | 2 | 11 | 9 |
| 4½ in. × 9 in. Plinth, rubbed on top and face ... | ,, | 2 | 6 | 3 |
| 3 in. sawn two sides Slabs, random sizes ... | per ft. sup. | | 8 | 3 |
| Templates and Cover Stones, 3 in., 4 in. and 6 in. thick, edges coped for rendered brickwork ... | per ft. cube | 1 | 8 | 3 |
| Do. do. fair one edge for fair faced brickwork ... | ,, | 1 | 13 | 6 |
| Hard York— | | | | |
| 12 in. × 2 in. Square Steps, rubbed on top and edge | per ft. run | | 10 | 0 |
| 14 in. × 3 in. Round-nosed Steps, rubbed on top and front ... | per ft. cube | 2 | 12 | 9 |
| 12 in. × 6 in. Plain Steps, rubbed top and front ... | ,, | 2 | 6 | 3 |
| 2 in. Rubbed and Jointed Paving, given sizes ... | per ft. sup. | | 9 | 4 |
| 2 in. Sawn Paving, edges squared, in random sizes | per yd. sup. | 3 | 5 | 3 |

## TILES AND PANTILES

| | | | |
|---|---|---|---|
| Delivered London area by road in 6 tons or over per 1,000 | | | |
| Machine-made Pantiles and French pattern Tiles from Lincolnshire district ... | 29 | 8 | 0 |
| Hand-made Pantiles Berkshire district ... | 50 | 9 | 0 |
| Hand-made Double Roman Bridgwater district ... | 58 | 13 | 6 |
| Hand-made 10½ × 6½ tiles Berkshire district ... | 14 | 1 | 6 |
| Machine-made 10½ × 6½ Staffordshire district ... | 13 | 18 | 9 |
| Hand-made Hip and Valley tiles per doz. ... | 1 | 10 | 0 |
| Machine-made Hip and Valley tiles do. ... | 1 | 8 | 0 |
| Concrete tiles 10½ × 6½ ... | 8 | 1 | 6 |
| do. Interlocking (49S) ... | 19 | 0 | 0 |

NOTE.—Breakage in transit, purchasers' responsibility.

## SLATES

| | | | |
|---|---|---|---|
| First-quality Slates from Penrhyn or Portmadoc, carriage paid in full truck loads to London Rate Station. Per 1,000 actual. | | | |
| 24 × 12 ... | 137 | 2 | 4 |
| 22 × 12 ... | 111 | 8 | 0 |
| 22 × 11 ... | 100 | 14 | 1 |
| 20 × 12 ... | 94 | 9 | 10 |
| 20 × 10 ... | 90 | 8 | 6 |
| 18 × 10 ... | 62 | 17 | 0 |
| 18 × 9 ... | 55 | 1 | 6 |
| 16 × 10 ... | 49 | 10 | 0 |
| 16 × 8 ... | 38 | 15 | 3 |

NOTE.—Breakage in transit, purchasers' responsibility.

## TIMBER

| | | | | |
|---|---|---|---|---|
| Softwood— | | | | |
| Joinery quality ... | Ex. Wharf per standard | £115 to £140 | | |
| Carcassing quality ... | do. ,, | £100 to £105 | | |
| 1 in. Tongued and Grooved Flooring | do. ,, | £110 | 0 | 0 |
| Hardwood— | | | | |
| Mahogany—African S.E. ... | do. per ft. cube | 1 | 10 | 0 |
| do. Honduras do. ... | do. ,, | 3 | 5 | 0 |
| Oak European do. ... | do. ,, | 2 | 5 | 0 |
| do. Japanese do. ... | do. ,, | 2 | 10 | 0 |
| do. English Logs sawn ... | do. ,, | 1 | 17 | 6 |
| Teak 8 in. average S.E. ... | do. ,, | 3 | 17 | 6 |
| Walnut African Logs sawn ... | do. ,, | 1 | 5 | 0 |

## DOORS (in Lots I-II)

| | | £ | s. | d. |
|---|---|---|---|---|
| Delivered London area. | | | | |
| 1½ in. 4 Horizontal Panel. Pattern 4 in. deal | | | | |
| 2ft. 0 in. × 6 ft. 6 in. ... | each | 1 | 12 | 0 |
| 2 ft. 3 in. × 6 ft. 6 in. ... | ,, | 1 | 13 | 0 |
| 2 ft. 6 in. × 6 ft. 6 in. ... | ,, | 1 | 14 | 0 |
| 2 ft. 9 in. × 6 ft. 6 in. ... | ,, | 1 | 16 | 6 |
| 2 in. do. but top panel open. Pattern 4 × G in deal | | | | |
| 2 ft. 6 in. × 6 ft. 6 in. ... | ,, | 2 | 9 | 0 |
| 2 ft. 9 in. × 6 ft. 6 in. ... | ,, | 2 | 11 | 6 |
| 2 in. Panel, top panel open. Pattern 2 × G in deal | | | | |
| 2 ft. 6 in. × 6 ft. 6 in. ... | ,, | 2 | 1 | 9 |
| 2 ft. 9 in. × 6 ft. 6 in. ... | ,, | 2 | 3 | 6 |

## SUNDRIES

| | | | | |
|---|---|---|---|---|
| Delivered London area. | | | | |
| 1 in. Wood Wool Slabs, 6 ft. 0 in. × 2 ft. 0 in. in quantities of 1 ton (89 yds. to 1 ton) ... | per yd. | | 5 | 8 |
| 1½ in. do. (67 yds. to 1 ton) ... | ,, | | 7 | 4 |
| 2 in. do. (52 yds. to 1 ton) ... | ,, | | 8 | 11½ |
| 2½ in. do. (45 yds. to 1 ton) ... | ,, | | 10 | 3 |
| 3 in. do. (39 yds. to 1 ton) ... | ,, | | 11 | 5½ |
| Quantities under 1 ton add 1d. per ½ in. of thickness. | | | | |
| ½ in. imported insulation Board, quantities over 5,000 sq. ft. | per 100 sq. ft. | 2 | 2 | 6 |
| ⅛ in. Hardboard do. ... | ,, | 2 | 1 | 6 |
| 3/16 in. do. do. ... | ,, | 3 | 2 | 6 |
| 3/16 in. Asbestos Flat Building Sheets ... | per yd. sup. | | 3 | 8 |
| ¼ in. do. ... | ,, | | 4 | 10 |
| Roofing Felt, 1-ply ... | ,, | | 1 | 7 |
| do. 2-ply ... | ,, | | 2 | 0 |
| Best Scotch Glue in slabs ... | per ½ cwt. | 5 | 0 | 0 |
| do. pearl ... | ,, | 5 | 5 | 0 |
| Croid Glue ... | 28 lb. | 2 | 6 | 0 |
| Cut Nails 3 in. (1-ton lots) ... | per ton | 70 | 10 | 0 |
| do. 4 in. and up (1-ton lots) ... | ,, | 67 | 0 | 0 |
| Wire Nails, 3 in. (4-cwt. lots) ... | per cwt. | 3 | 3 | 6 |
| do. 4 in. and up (4-cwt. lots) ... | ,, | 3 | 3 | 0 |

## METALS

### STEEL JOISTS, ETC.

| | | | | |
|---|---|---|---|---|
| Basis Joists— | | | | |
| 6 in. × 5 in., 8 in. × 5 in., 8 in. × 6 in., 10 in. × 6 in. 12 in. × 6 in. plain cut to lengths delivered London area ... | per ton | 44 | 5 | 0 |
| Extra for sizes | | | | |
| 3 in. × 1½ in. 4 in. × 1¾ in. ... | ,, | 3 | 10 | 0 |
| 3 in. × 3 in. ... | ,, | 2 | 10 | 9 |
| 4 in. × 3 in. 10 in. × 4½ in. ... | ,, | 1 | 10 | 0 |
| 5 in. × 2½ in. 5 in. × 3 in. ... | ,, | 1 | 15 | 0 |
| 4¾ in. × 1¾ in. ... | ,, | 3 | 5 | 0 |
| 5 in. × 4½ in. 7 in. × 3½ in. 13 in. × 5 in. | ,, | | 15 | 0 |
| 6 in. × 3 in. 24 in. × 7½ in. ... | ,, | 2 | 0 | 0 |
| 6 in. × 4½ in. 7 in. × 4 in. 8 in. × 4 in. / 9 in. × 4 in. 10 in. × 5 in. ... | ,, | 1 | 5 | 0 |
| 12 in. × 5 in. 22 in. × 7 in. ... | ,, | 1 | 0 | 0 |
| 9 in. × 7 in. 10 in. × 8 in. 12 in. × 8 in. / 14 in. × 5½ in. 14 in. × 6 in. 14 in. × 8 in. / 15 in. × 5 in. 15 in. × 6 in. 16 in. × 6 in. / 16 in. × 8 in. 18 in. × 6 in. 18 in. × 7 in. / 18 in. × 8 in. 20 in. × 6½ in. 20 in. × 7½ in. | ,, | | 10 | 0 |
| Steel angles average price ... | ,, | 46 | 5 | 0 |
| Steel tees average price ... | ,, | 47 | 5 | 0 |
| Fabricated work delivered London— | | | | |
| R.S. Joists cut and fitted ... | ,, | 61 | 7 | 6 |
| Compound girders ... | ,, | 67 | 10 | 0 |
| Stanchions ... | ,, | 72 | 17 | 6 |
| Compound stanchions ... | ,, | 77 | 5 | 0 |
| In Roof Work—Trusses and Purlins ... | ,, | 90 | 10 | 0 |
| Average prices not for awkward work. | | | | |
| Angle cleats and ⅝ in., ¾ in. and ⅞ in. bolts average price London area ... | per cwt. | 5 | 3 | 0 |

### FERRO-CONCRETE BARS

| | | | | |
|---|---|---|---|---|
| Mild Steel Ferro-Concrete bars British manufacture to BSS785 ex London Stock ⅝ in. diam., and upwards ... | ,, | 44 | 10 | 0 |
| ¼ in. diam. ... | per ton extra | 8 | 12 | 0 |
| 5/16 in. do. ... | ,, | 6 | 12 | 0 |
| ⅜ in. do. ... | ,, | 4 | 12 | 0 |
| ½ in. do. ... | ,, | 3 | 2 | 0 |

### MILD STEEL TUBES

Tubes to BSS1387 and Fittings. List prices and following discounts :

| Galvanised Tube— | W.I. Fittings. | Malleable Fittings |
|---|---|---|
| Class A + 10¾% | | |
| Class B + 22 ¾% | Light + 38¾% | Malleable List—28¾% + 40% |
| Class C + 40 % | Heavy + 46¼% | |
| Black— | | |
| Class A − 11½% | | |
| Class B + ¾% | Light + 55½% | Malleable List—28¾% |
| Class C + 15 % | Heavy + 33 % | |

### C.I. HALF-ROUND GUTTERS

Delivered London per yd. in 6-ft. lengths

| | Gutters | Nozzles | Stop Ends |
|---|---|---|---|
| 3 in. ... | 3/8½ | 3/4 | /11 |
| 3½ in. ... | 4/0½ | 3/7 | /11 |
| 4 in. ... | 5/2½ | 4/1 | 1/5 |
| 4½ in. ... | 5/8½ | 4/6 | 1/8 |
| 5 in. ... | 6/4½ | 4/11 | 2/0 |

# £100 a week lost through roof!

"Look sir! Heating plant's going full blast—and they still complain it's too cold! What do they expect *me* to do?"

"Fuel bills are sky high. I hate to think what they'll be when we carry out those workshop extensions."

". . . and with our increased business we'll need more factory space. This heating problem *must* be solved. Let's take a look at this insulation board which the Bowater people make."

LATER
". . . the architects specified ½" Bowater Insulation . . . the whole roof was lined in six weeks . . ."

"Absolutely! We've *doubled* our floor area and we're still using the same heating plant we started with. That's meant a capital saving of £2,500 *and* we're regularly saving *£100 a week* on winter fuel bills! The whole building is cooler in summer too and the insulation acts as a dust seal. Yes, I'd certainly recommend Bowater Insulation in your case . . ."

## send for a copy of 'The Heat Barrier' today!

This story is based on the real life experience of a famous company. It is one of the case histories which you can read about in 'The Heat Barrier'. This informative book will show you how to solve insulation problems in *your* workshops and offices, how to cut fuel costs and improve working conditions. Send for your copy today to:

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Bowaters Sales Company Limited,
Bowater House, Stratton Street, London, W.1.
MAYfair 8080

# Bowater Insulation

keeps warmth at work

. . . for Betterwear Brushes, B.S.A., Axminster Carpets, Rowntrees, Belling Electric Fires and many more famous companies.

CRC 108

No damp can penetrate the permanent barrier that R.I.W. 232 composition forms between wall and plaster, yet at the same time the plaster is positively bonded to the wall.

## Easily Applied

R.I.W. 232 Composition is easily applied by brush or suitable spray plant, involves no departure from standard plastering practices, is unaffected by alkalis, renders walls vermin and stainproof, and has proved an excellent safeguard against dry rot.

## No Hacking

Neither hacking, furring nor lathing are necessary, and R.I.W. 232 can be applied equally well to brick, concrete and masonry walls, including those that have been previously painted or distempered.

## Proved in use

For years the specifications for many famous buildings have included R.I.W. 232; some notable examples are: R.I.B.A. Headquarters; London Airport; The King's House, Burhill; Du Cane Court, London; L.C.C. Fire Brigade Headquarters; New County Hall, Newport, I.O.W.; E.C.C. Technical College; Ocean Hotel, Saltdean, etc., etc.

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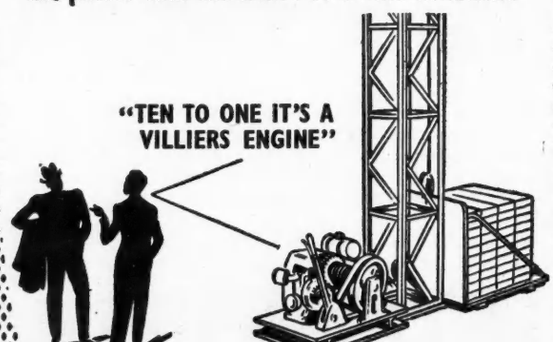
*The power and the heart of a fine machine*

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THE VILLIERS ENGINEERING COMPANY LTD · WOLVERHAMPTON

## METALS—*continued*

### C.I.O.G. Gutters

| | Gutters | Nozzle | Stop Ends |
|---|---|---|---|
| 3 in. | 4/9½ | 4/4 | 1/2 |
| 3½ in. | 5/4 | 4/4 | 1/5 |
| 4 in. | 5/11 | 4/6 | 1/8 |
| 4½ in. | 6/4½ | 5/2 | 2/0 |
| 5 in. | 7/0 | 5/11 | 2/3 |

### C.I. Rain-water Pipes

| Per yd. in 6-ft. lengths | Pipe | Bends | Branches |
|---|---|---|---|
| 2 in. | 7/11 | 4/1 | 5/10 |
| 2½ in. | 7/11 | 4/6 | 7/10 |
| 3 in. | 8/11 | 5/8 | 8/5 |
| 3½ in. | 10/1½ | 6/8 | 10/2 |
| 4 in. | 11/8½ | 8/1 | 12/0 |

### L.C.C. Coated Soil Pipes

| | | | |
|---|---|---|---|
| 2 in. | 9/0 | 7/0 | 8/5 |
| 2½ in. | 9/5½ | 7/8 | 10/6 |
| 3 in. | 10/8 | 8/5 | 12/6 |
| 3½ in. | 11/11 | 10/6 | 14/7 |
| 4 in. | 13/6½ | 11/9 | 17/2 |

Above prices for gutters, rain-water and soil pipes for under 5 cwt. lots only. Lots over 5 cwt. see List No. 3300 dated February 1, 1955, plus 12½% and tonnage allowance. 4-ton lots 5 per cent., 2-ton lots 2½ per cent.

### L.C.C. Coated Drain Pipes

| In 9-ft. | cwt. | qr. | lb. | per yd. | Bends | Branches |
|---|---|---|---|---|---|---|
| 4 in. | 1 | 1 | 17 | 31/4 | 21/9 | 38/9 |
| 6 in. | 2 | 0 | 1 | 46/2 | 58/0 | 92/9 |

### Asbestos Rain-water Pipes and Fittings

All less 17½ per cent. discount.

| | | 2 in. | 2½ in. | 3 in. | 4 in. |
|---|---|---|---|---|---|
| Pipes 6-ft. lengths | ...per yd. | 3/11½ | 4/3 | 5/1½ | 6/9½ |
| Shoes | ... each | 2/7 | 2/10 | 3/4 | 4/6 |
| Single Branches | ... „ | 4/– | 4/9 | 5/8 | 7/11 |
| Bends square or obtuse | ... „ | 2/10 | 3/1 | 4/– | 5/8 |
| Swan Necks 4½ in. proj. | ... „ | 3/1 | 4/– | 4/6 | 6/3 |
| do. 6 in. do. | ... „ | 3/4 | 4/– | 5/1 | 6/9 |

### Asbestos O.G. Gutters and Fittings

| | | 4 in. | 4½ in. | 5 in. | 6 in. |
|---|---|---|---|---|---|
| Gutters 6 ft. lengths | ...per yd. | 3/8½ | 4/2 | 4/11½ | 5/11½ |
| Drop ends | ... each | 3/– | 3/6 | 4/1 | 4/10 |
| Stop ends | ... „ | –/11 | 1/– | 1/1 | 1/3 |
| Angles | ... „ | 3/1 | 3/7 | 4/4 | 5/1 |
| Nozzles | ... „ | 3/– | 3/6 | 4/1 | 4/10 |
| Union Clips | ... „ | 1/6 | 1/9 | 2/2 | 2/6 |

### Asbestos Half-Round Gutters and Fittings

| | | 3 in. | 4 in. | 4½ in. | 5 in. | 6 in. |
|---|---|---|---|---|---|---|
| Gutters 6 ft. lengths | per yd. | 2/7½ | 3/1½ | 3/2½ | 3/9½ | 5/3½ |
| Drop ends | ... each | 2/2 | 2/7 | 2/10 | 3/1 | 4/6 |
| Stop ends | ... „ | –/10 | /11 | 1/– | 1/1 | 1/3 |
| Angles | ... | 2/6 | 2/10 | 3/1 | 3/4 | 4/6 |
| Nozzles | ... „ | 2/2 | 2/7 | 2/10 | 3/1 | 4/6 |
| Union Clips | ... „ | 1/1 | 1/2 | 1/3 | 1/5 | 2/1 |

| | Per ton basis in London £ s. d. |
|---|---|
| Iron—Staffordshire Crown Merchant Quality ... ... | 43 12 6 |
| Mild Steel Bars ... ... ... ... ... ... | 46 18 0 |
| Mild Steel Hoops ... ... ... ... ... ... | 42 17 6 |

| | Ex Merchant's Stock per ton Two-ton lots £ s. d. |
|---|---|
| Soft Sheets C.R. and C.A.— | |
| 20 gauge ... ... ... ... ... ... ... | 56 2 6 |
| 24 gauge ... ... ... ... ... ... ... | 58 12 6 |
| 26 gauge ... ... ... ... ... ... ... | 61 12 6 |
| Galvanised Corrugated sheets 6 ft. to 9 ft.— | |
| 20 gauge ... ... ... ... ... ... ... | 64 7 0 |
| 24 gauge ... ... ... ... ... ... ... | 67 17 0 |
| 26 gauge ... ... ... ... ... ... ... | 73 2 0 |
| Galvanised flat sheets C.R. and C.A.— | |
| 20 gauge ... ... ... ... ... ... ... | 65 7 0 |
| 24 gauge ... ... ... ... ... ... ... | 68 17 0 |
| 26 gauge ... ... ... ... ... ... ... | 74 12 0 |

## ALUMINIUM AND ALUMINIUM ALLOYS

| (Base prices) | | £ s. d. |
|---|---|---|
| Sheet BS 1470 SIC 18 SWG (36 in. wide) ... ... | per lb. | 2 9½ |
| Sheet BS 1470 NS3 Utility 18 SWG (36 in. wide) ... | „ | 2 7 |
| Coiled strip BS 1470 S1C 18 SWG (24 in. wide) ... | „ | 2 8½ |
| Coiled strip BS 1470 NS 3 Utility 18 SWG (24 in. wide) ... ... ... ... ... ... | „ | 2 6½ |
| Coiled strip for flashing 99.7% purity 22 SWG (12 in. wide) ... ... ... ... ... ... | „ | 2 11 |
| Corrugated sheet BS 1470 NS 3 Utility Circular Profile 8 ft. × 32 in. × 20 SWG ... ... ... | per sheet | 1 11 0 |
| Corrugated sheet BS 1470 NS 3 Utility Industrial Profile 8 ft. × 31½ in. × 20 SWG ... ... ... | „ | 1 16 9 |
| Corrugated sheet BS 1470 NS 3 Utility Mansard Profile 8 ft. × 31½ in. × 20 SWG ... ... ... | „ | 1 10 2 |
| Extruded section BS 1476 E1C simple moulding ... | per lb. | 2 7½ |
| Extruded section BS 1476 E1C 1 in. diam. round | „ | 2 5 |
| Extruded section BS 1476 HE1WP simple angle | „ | 2 10½ |
| Extruded section BS 1476 HE10WP 1 in. diam. round | „ | 2 9½ |
| Tubing BS 1471 T1C 1½ in. O/D × 20 SWG ... | „ | 4 2½ |
| Tubing BS 1471 HT10WP 1½ in. O/D × 20 SWG | „ | 5 5½ |

## PLUMBERS' BRASS WORK, etc.

Delivered in London area.

| All per doz. | M.O.H. ½ in. | ¾ in. | 1 in. | 1¼ in. | 1½ in. | 2 in. |
|---|---|---|---|---|---|---|
| Screwdown bib cocks Crutch head for iron ... ... | 87/– | 128/8 | | | | |
| Toilet bib cocks for iron ... | 109/– | 158/5 | | | | |
| Screwdown stop cocks for iron | 66/– | 95/9 | 188/– | 363/– | 522/6 | 917/6 |
| do. with two unions for lead | 89/– | 132/– | 234/4 | 472/– | 623/6 | 1389/6 |
| Double nut boiler screws ... | 18/3 | 26/5 | 47/6 | 48/6 | 67/– | 93/6 |
| Heavy Croydon ball valves ... | 77/– | 193/6 | 312/5 | 568/8 | 734/10 | — |
| Plumbers' union brass lead to iron ... ... ... ... | 19/6 | 23/6 | 38/6 | 52/10 | 70/6 | 165/– |
| | 1¼ in. | 1½ in. | 2 in. | 3 in. | 3½ in. | 4 in. |
| Caps and screws ... ... ... | 33/– | 40/8 | 59/6 | 92/5 | 118/10 | 155/3 |
| Brass sleeves ... ... ... | | 31/11 | 31/11 | 56/2 | 74/10 | 91/5 |
| | 1¼ × 6 lb. | | 1½ × 6 lb. | 2 × 7 lb. | 3 × 7 lb. | |
| Lead P. trap with brass cleaning screws ... ... ... | 70/9 | | 88/6 | 141/7 | 241/11 | |
| Lead S. trap do. ... ... | 85/6 | | 106/3 | 174/– | 312/8 | |

| Solder | | s. d. |
|---|---|---|
| Plumbers' ... ... ... ... ... ... | per lb. | 4 1 |
| Tinmen's ... ... ... ... ... ... | „ | 4 11 |
| Blow pipe ... ... ... ... ... ... | „ | 5 0 |

### Copper Tubes and Sheets

Copper tubes BSS 659/1944 on the basic price of 32⅝d. per lb. plus gauge and manufacturing extras as follows. Minimum quantities, 3 cwt.

| | Extra d. | | d. | | d. |
|---|---|---|---|---|---|
| ½ in. × 19 gauge ... | 13½ | Total per lb. | 46½ | approx. per ft. | 12½ |
| ¾ in. × 19 „ ... | 11⅞ | „ „ | 44½ | „ „ | 17½ |
| 1 in. × 18 „ ... | 10⅝ | „ „ | 43 | „ „ | 26½ |
| 1¼ in. × 18 „ ... | 9¾ | „ „ | 42⅜ | „ „ | 32½ |
| 1½ in. × 18 „ ... | 9¾ | „ „ | 42⅜ | „ „ | 38½ |
| 2 in. × 17 „ ... | 11⅜ | „ „ | 44 | „ „ | 61½ |

| | | £ s. d. |
|---|---|---|
| Rolled Copper sheets up to 48 in. wide, basic price plus gauge and manufacturing extras ... ... | per ton | 342 15 0 |

### Zinc

| | | | | |
|---|---|---|---|---|
| Sheet Zinc | 10 gauge (25 SWG) | 5 cwt. lots upwards | per cwt. | 8 5 9 |
| do. | 12 gauge (23 SWG) | „ | „ | 8 3 3 |
| do. | 14 gauge (21 SWG) | „ | „ | 8 2 0 |

### Brass Tubes

| | | |
|---|---|---|
| Brass tubes basic price, plus gauge and manufacturing extras ... ... ... ... ... ... | per lb. | 2 2⅞ |

## LEAD SHEET AND PIPES

Basis selling price in minimum one-ton delivery to one address in London or Home Counties.

| | | £ s. d. |
|---|---|---|
| Lead Sheet, English, 3½ lb. substance and upwards | per ton | 151 0 0 |
| Lead Water Pipe in coils ... ... ... ... | „ | 152 5 0 |
| Lead Soil Pipe 10 ft. or over 2 in. to 4 in. dia. ... | „ | 153 15 0 |
| „ over 4 in. dia. ... ... ... | „ | 155 15 0 |
| Lead Gas or Untinned Compo pipe ... ... | „ | 153 15 0 |
| Extras over Basis for quantities under 1 ton | | |
| 5 cwt. and under 1 ton ... ... ... ... | per cwt. | 2 0 |
| 3 cwt. do. 5 cwt. ... ... ... ... | „ | 4 0 |
| 1 cwt. do. 3 cwt. ... ... ... ... | „ | 6 0 |

Smaller quantities than 1 cwt. priced specially.

Supplying sheet lead and lead pipe to less than basis weights and cutting to sizes less than basis charged extra according to current trade schedule.

Allowance for Old Lead, collected £98 10s. 0d. per ton weighed at buyer's works.

## PLASTER, etc.

| | | £ s. d. |
|---|---|---|
| Coarse Pink in 1-ton loads and over Delivered on Site | per ton | 8 0 0 |
| do. White do. do. ... | „ | 8 9 6 |
| Sirapite Coarse do. do. ... | „ | 8 2 0 |
| do. Fine do. do. ... | „ | 8 10 0 |
| Blue Lias Lime in 6-ton loads ... ... ... ... | „ | 6 14 6 |
| Hydrated Lime do. ... ... ... ... | „ | 5 17 6 |
| Lump Lime do. ... ... ... ... | „ | 5 7 0 |
| White Keen's or Parian Cement in 1-ton loads ... | „ | 11 9 6 |
| Pink Keen's or Parian Cement in 1-ton loads ... | „ | 11 4 3 |
| Granite Chips in 6-ton loads ... ... ... ... | „ | 2 9 4 |
| Hair ... ... ... ... ... ... | per cwt. | 4 17 6 |
| Gypsum Plaster Lath or Base Board ⅜ in. thick 600 yds. and over in one delivery. Delivered site ... | per yd. | 2 4 |
| 1,200 yds. ... ... ... ... ... ... | „ | 2 3½ |
| Do. Insulating do. ⅜ in. thick 600 yds. and over in one delivery. Delivered site ... ... ... | „ | 3 0 |
| 1,200 yds. ... ... ... ... ... ... | „ | 2 11½ |
| Gypsum Plaster Wall Boards, 3 and 4 ft. wide, 6 to 12 ft., ⅜ in. thick, 600 yds. and over in one delivery. Delivered site ... ... ... ... ... ... | „ | 2 7 |
| 1,200 yds. ... ... ... ... ... ... | „ | 2 6½ |
| Do. Insulating do. ⅜ in. thick 600 yds. and over in one delivery. Delivered site ... ... ... | „ | 3 3 |
| 1,200 yds. ... ... ... ... ... ... | „ | 3 2½ |

## PAINT AND DISTEMPER

| Delivered London area | | £ | s. | d. |
|---|---|---|---|---|
| Ceiling Distemper ... ... ... ... ... | per cwt. | 1 | 7 | 6 |
| Washable Distemper ... ... ... ... | " | 5 | 5 | 0 |
| Gloss Paint ... ... ... ... ... ... | per gal. | 2 | 10 | 0 |
| Snowcem cement paint (in 1 cwt. drums) ... ... | per cwt. | 3 | 11 | 0 |
| LEAD PRODUCTS AND OILS | | | | |
| Ground White Lead, 1 cwt. kegs ... ... ... | per cwt. | 9 | 14 | 0 |
| Genuine White Lead Paint, 1-19gal. lots in 1 gal. tins | per gal. | 3 | 9 | 6 |
| Genuine Red Lead, Dry, 1 cwt. keg ... ... | per cwt. | 7 | 12 | 0 |
| Genuine Linseed Oil Putty, 1 cwt. keg ... ... | " | 2 | 18 | 0 |
| Size XD quality, 28 lb. ... ... ... ... | per tin | | 9 | 0 |
| Raw Linseed Oil (5 gal.) drums extra ... ... | per gal. | | 17 | 3 |
| Boiled Linseed Oil (5 gal.) do. ... ... | " | | 17 | 9 |
| SUNDRIES. | | | | |
| Turpentine substitute (5 gal.) drums extra ... ... | " | | 5 | 6½ |
| do. do. (40 gal.) do. do. ... | " | | 4 | 8½ |
| Solignum, Brown (5 gal. cans) Exterior ... ... | " | | 7 | 4 |
| Creosote (40 gal. barrels) ... ... ... ... | " | | 2 | 0 |
| Paste Powder (1 lb. packets) ... ... ... | per lb. | | 2 | 0 |
| White Lining Paper ... ... ... ... ... | per piece | | 1 | 1 |

## VARNISHES, etc.

| Delivered London area | | | | |
|---|---|---|---|---|
| Oak Varnish, Outside or Inside ... ... ... | per gal. | 1 | 18 | 0 |
| Oak Pale Copal do. ... ... ... | " | 1 | 18 | 0 |
| Hard Drying Oak for Inside ... ... ... ... | " | 2 | 1 | 0 |
| Crystal Paper Varnish do. ... ... ... ... | " | 2 | 4 | 0 |
| Eggshell Flat Varnish do. ... ... ... ... | " | 2 | 6 | 0 |
| Finest Carriage Varnish ... ... ... ... | " | 2 | 5 | 0 |
| Front Door Varnish ... ... ... ... ... | " | 2 | 1 | 0 |
| Japan Gold Size ... ... ... ... ... | " | 1 | 14 | 0 |
| Black Japan ... ... ... ... ... ... | " | 1 | 15 | 0 |
| Brunswick Black ... ... ... ... ... | " | 1 | 10 | 0 |
| Berlin Black ... ... ... ... ... ... | " | 1 | 7 | 6 |
| Terebene ... ... ... ... ... ... | " | 1 | 13 | 0 |
| Knotting (1 gal. bottles free)... ... ... ... | " | 2 | 7 | 0 |
| French and Brush Polish (do.) ... ... ... | " | 2 | 0 | 0 |

## GLASS

| Delivered London area | per ft. super s. | d. |
|---|---|---|
| 18 oz. Sheet Glass Ordinary Glazing Quality. Cut Sizes | | 6¾ |
| 24 oz. " " " " " " | | 8¾ |
| 26 oz. " " " " " " | | 11 |
| 32 oz. " " " " " " | 1 | 2¾ |
| ⅛ in. Rolled Plate ... ... ... ... ... | | 10⅞ |
| 3/16 in. and ¼ in. Rough Cast ... ... ... ... | 1 | 2¼ |

| | Per ft. super s. | d. |
|---|---|---|
| ⅛ in. Figured Rolled and Cathedral, Standard patterns: | | |
| White ... ... ... ... ... ... | | 10⅞ |
| do. Standard Tints ... ... ... ... ... | 1 | 8 |
| do. Special Tints ... ... ... ... ... ... | 3 | 4 |
| ⅛ in. Pinstripe, Hammerstripe, Reeded, Reedlyte and Luminating ... ... ... ... ... ... | 1 | 3 |
| ¼ in. Wired Cast ... ... ... ... ... ... | 1 | 5 |
| ¼ in. Georgian Wired Cast ... ... ... ... ... | 1 | 5¼ |
| Hollow Glass Blocks— | Each | |
| P.B.2. 5¾ × 5¾ × 3⅞ in. ... ... ... ... | 2 | 11 |
| P.B.3 7¾ × 7¾ × 3⅞ in. ... ... ... ... | 4 | 5 |
| P.B.32 7¾ × 7¾ × 3⅞ in. ... ... ... ... | 4 | 5 |
| Radiused Corner Blocks to match up with— | | |
| P.B.2 ... ... ... ... ... ... ... | 5 | 6 |
| P.B.3 ... ... ... ... ... ... ... | 7 | 0 |
| P.B.32 ... ... ... ... ... ... ... | 7 | 0 |
| ¼ in. Polished Plate Glass, G.G. Quality— | Per ft. super | |
| In plates not exceeding 2 ft. sup. ... ... ... | 3 | 10 |
| " " " 5 ft. sup. ... ... ... | 4 | 9 |
| " " " 45 ft. sup. ... ... ... | 5 | 7 |
| " " " 100 ft. sup. ... ... ... | 6 | 0 |
| ¼ in. Polished Plate, extra sizes, *i.e.*, plates exceeding 100 ft. sup. or 160 in. one way or 96 in. both ways. G.G. quality —Not exceeding 135 ft. sup. or 250 in. one way or 135 in. both ways ... ... ... ... ... ... | 9 | 0 |
| Not exceeding 180 ft. sup. or ditto ... ... ... | 12 | 1 |
| Not exceeding 200 ft. sup. or ditto ... ... ... | 17 | 2 |
| Plates exceeding 200 ft. sup. prices on application. | | |
| Substances other than ¼ in. Polished Plate at Special Prices. | | |

Quantity Tariff—Sheet and Sundry Glass.

The following prices apply to minimum quantities of one size and one pattern delivered by the manufacturer to one site at one time.

| Description of Glass | Minimum quantity | Per ft. sup. s. | d. |
|---|---|---|---|
| 18 oz. sheet O.Q. ... ... ... ... ... | 3,000 | | 4⅞ |
| 24 oz. " " ... ... ... ... ... | 2,000 | | 6¼ |
| 26 oz. " " ... ... ... ... ... | 2,000 | | 8⅛ |
| 32 oz. " " ... ... ... ... ... | 2,000 | | 11⅛ |
| ⅛ in. Rolled Plate ... ... ... ... ... | 1,000 | | 8⅛ |
| ⅛ in. Figured Rolled and Cathedral Standard Patterns, White ... ... ... ... ... | 1,000 | | 8⅛ |
| ⅛ in. Pinstripe, Hammerstripe, Reeded, Luminating and Spotlyte... ... ... ... ... | 1,000 | | 11⅞ |
| 3/16 in. and ¼ in. Rolled Plate or Rough Cast ... | 2,000 | 1 | 0 |
| ¼ in. Wired Cast, Hexagonal... ... ... ... | 2,000 | 1 | 2 |
| ¼ in. Georgian Wired Cast ... ... ... ... | 2,000 | 1 | 2¼ |

*The Builder*

# CURRENT RATES OF WAGES

**AS FROM APRIL 16, 1956. (Every endeavour is made to ensure accuracy but we cannot be responsible for errors.)**

### KEY TO SCHEDULE OF GRADE RATES.

| Grade Classification. | A | A1 | A2 |
|---|---|---|---|
| Craftsmen ... ... ... | 4/3½ | 4/3 | 4/2½ |
| Labourers ... ... ... | 3/9 | 3/8½ | 3/8 |

| *Town.* | *Grade.* |
|---|---|
| Aberavon | A |
| Aberdare | A |
| Abergavenny | A |
| Abingdon | A2 |
| Accrington | A |
| Addlestone | A |
| Afan Valley | A |
| Aldeburgh | A1 |
| Aldershot District | A1 |
| Alfreton UD | A |
| Alnwick UD | A |
| Altrincham | A |
| Amble | A |
| Ambleside | A2 |
| Amersham | A1 |
| Ammanford | A |
| Andover | A2 |
| Anglesey, Isle of | A2 |
| Ardingly | A2 |
| Arundel | A2 |
| Ascot | A2 |
| Ashbourne RD | A2 |
| Ashbourne UD | A2 |
| Ashby-de-la-Zouch UD | A |
| Ashby Woulds UD | A |
| Ashford (Kent) | A2 |
| Ashford (Middlesex) | A |
| Ashington UD | A |
| Ashtead | A |
| Ashton-under-Lyne | A |
| Aspatria and Brayton | A2 |
| Atherstone RD | A |
| Attleborough | A2 |
| Axminster | A2 |
| Aylesbury | A2 |
| Aylesham | A2 |
| Bagshot | A2 |
| Bakewell UD | A2 |
| Banbury | A1 |
| Bangor | A2 |
| Barnard Castle UD | A |
| Barnoldswick UD | A |
| Barnsley CB | A |
| Barnstaple | A2 |
| Barrow-in-Furness | A |
| Barrow-upon-Soar RD (exc. Thrussington A2) | A |
| Barry | A |
| Basford RD (exc. Willough-by-on-the-Wolds A1) | A |
| Basingstoke | A1 |
| Bath | A |
| Batley MB | A |
| Baxterley | A1 |
| Beaconsfield District | A |
| Bearl | A |
| Beccles | A2 |
| Bedale RD | A |
| Bedford | A |
| Bedlington | A |
| Bedlingtonshire UD | A |
| Bedwas | A |
| Beeston & Stapleford UD | A |
| Belper UD | A |
| Belton | A |
| Berkhamsted | A |
| Berrington | A1 |
| Berwick Borough | A |
| Beverley MB | A |
| Bewdley MB | A |
| Bexhill-on-Sea | A2 |
| Bideford | A2 |
| Biggleswade | A2 |
| Billericay | A |
| Billing | A |
| Billingham UD | A |
| Bilsthorpe | A |
| Bilston MB | A |
| Birchington | A2 |
| Birkenhead | * |
| Birmingham CB | †A |
| Bishop Auckland UD | A |
| Bishop's Stortford | A |
| Bishops Castle MB | A2 |
| Bispham | A |
| Blackburn | A |
| Blackpool | A |
| Blackwell RD | A |
| Blandford | A2 |
| Blaydon UD | A |
| Blidworth | A |
| Blyth B. | A |
| Bodmin | A2 |
| Bognor Regis | A2 |
| Boldon UD | A |
| Bolsover UD | A |
| Bolton | A |
| Boston MB | A |
| Bourne End | A |
| Bournemouth District | A |
| Brackley MB | A2 |
| Bracknell | A2 |
| Bradford CB | A |
| Bradford-on-Avon | A2 |
| Braintree | A1 |
| Brandon & Byshottles UD | A |
| Brecon—Borough of | A1 |
| Breconshire, County of ... | ‡A2 |
| Brent Knoll | A2 |
| Brentwood | A |
| Bridgend | A |
| Bridlington MB | A |
| Bridlington RD | A1 |
| Bridgnorth MB | A1 |
| Bridgnorth RD | A2 |
| Bridgwater | A1 |
| Brierfield | A |
| Brighouse MB | A |
| Brighton & Hove | A |
| Bristol District | A |
| Broadstairs | A2 |
| Bromsgrove UD | A |
| Broughton, Flint | A |
| Buckfastleigh | A2 |
| Buckingham | A2 |
| Buckley | A |
| Bungay | A2 |
| Burnham-on-Crouch | A2 |
| Burnham-on-Sea | A2 |
| Burnley | A |
| Burton-on-Trent C.B. | A |
| Bury | A |
| Bury St. Edmunds | A1 |
| Buxton | A |
| Byfleet | A1 |
| Caernarvon | A2 |
| Caernarvonshire, Cnty. of | ‡A2 |
| Calder Valley | A |
| Camberley District | A2 |
| Cambridge | A |
| Cannock UD | A |
| Canterbury | A2 |
| Cardiff | A |
| Cardiganshire, County of | ‡A2 |
| Carlisle | A |

# Six important questions to ask before you buy an Excavator....

- Has it an uninterrupted slew through 180°?
- Can it dig at 90 to the tractor?
- Does it reach out to 16 feet?
- Can it dig down to 11 feet?
- Has it a discharge height of 9' 6"?
- Is there a full range of buckets—from 10—51 inches?

A JCB SERVICE BACKED PRODUCT

If the answer to all 6 questions is YES then it must be a J.C.B. . . . the only tractor-mounted excavator with all these outstanding features and giving the highest results with the lowest running and maintenance costs.

JCB HAS GOT ALL THE ANSWERS ★ DEMONSTRATIONS ANYWHERE—ANYTIME!

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# CURRENT RATES OF WAGES—Continued

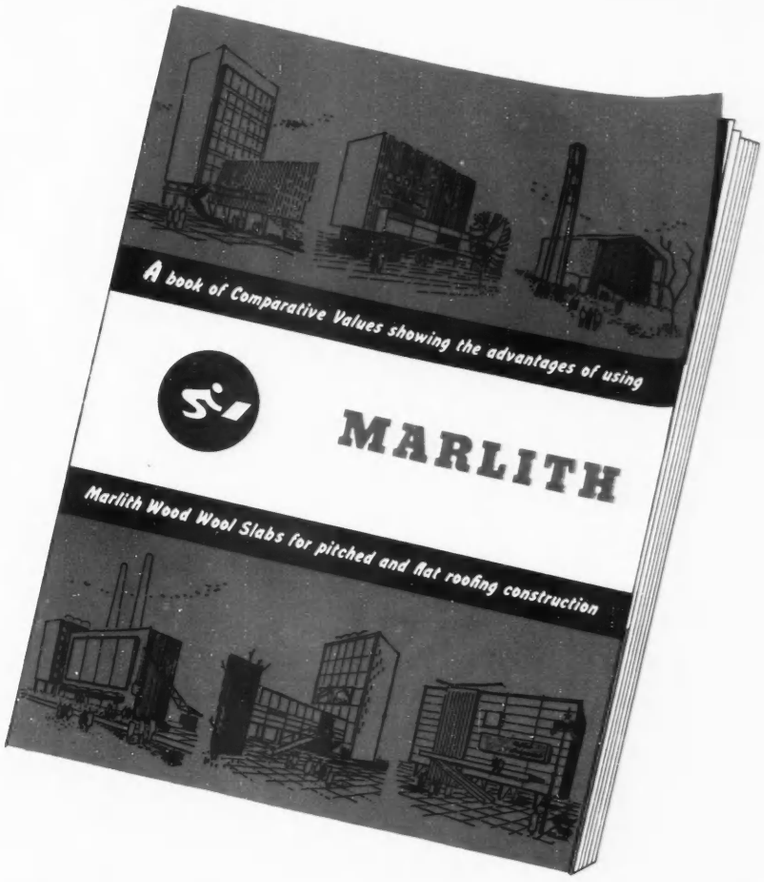
| Town. | Grade. |
|---|---|
| Carlton UD | A |
| Carmarthen—Borough of | A1 |
| Carmarthenshire, Cnty of | ‡A2 |
| Carnforth | A |
| Castleford UD | A |
| Caterham | A |
| Chapel-en-le-Frith | A |
| Chard | A2 |
| Charmy Down | A |
| Chatham District | A |
| Chatteris | A2 |
| Cheadle (Staffs) RD | A |
| Chelmsford | A |
| Cheltenham | A |
| Chepstow | A1 |
| Chertsey | A |
| Chester | A |
| Chester-le-Street UD | A |
| Chesterfield MB | A |
| Chesterfield RD | A |
| Chichester | A2 |
| Chipping Norton | A2 |
| Chipping Sodbury | A2 |
| Chippenham (inc. Chippenham Within and Hardenhuish) | A2 |
| Cirencester | A2 |
| Chorley | A |
| Clacton | A1 |
| Clay Cross UD | A |
| Cleethorpes MB | A |
| Clevedon | A1 |
| Cleveleys | A |
| Clitheroe | A |
| Coalville UD | A |
| Cobham (Surrey) | A |
| Colchester | A |
| Colne | A |
| Colwyn Bay | A1 |
| Congleton | A1 |
| Consett UD | A |
| Conway | A1 |
| Corby UD | A |
| Cornwall, County of | ‡A2 |
| Corsham District | A |
| Coventry CB | A |
| Cranbrook | A2 |
| Cranleigh | A2 |
| Cranwell Aerodrome Site | A1 |
| Crawley | A1 |
| Crewe | A |
| Crewkerne | A2 |
| Cromer | A1 |
| Crook and Willington UD | A |
| Crowborough | A2 |
| Cuckfield | A2 |
| Cwmbran | A |
| Dalton-in-Furness | A |
| Darlington CB | A |
| Dartmouth | A2 |
| Darwen | A |
| Daventry MB | A2 |
| Deal | A2 |
| Denbigh Town | A2 |
| Derby CB | A |
| Devizes | A2 |
| Devon, County of | ‡A2 |
| Dewsbury CB | A |
| Didcot | A2 |
| Diss | A2 |
| Doncaster CB | A |
| Dorchester | A2 |
| Dorking | A |
| Dorset, County of (excepting Poole, Swanage and Wimborne A1) | A2 |
| Dover | A2 |
| Dovercourt | A |
| Driffield UD | A1 |
| Drigg & Carleton | A |
| Droitwich MB | A |
| Dudley CB | A |
| Dunstable | A |
| Durham B | A |
| Eastbourne | A |
| E. Glam. & Mon. Val. | A |
| East Grinstead District | A2 |
| East Kesteven RD | A2 |
| East Retford MB | A |
| Eastwood (Notts) UD | A |
| Ebbw Vale & District | A |
| Edenbridge | A2 |
| Ely | A2 |
| Epping | A |
| Evesham MB | A2 |
| Exeter | A |
| Exmouth | A2 |
| Fakenham | A2 |
| Falmouth | A2 |
| Fareham | A |
| Faversham | A2 |
| Felixstowe | A1 |
| Filey UD | A |
| Fleetwood | A |
| Flint MB | A |
| Folkestone | A2 |
| Frinton | A1 |
| Frome | A1 |
| Gainsborough UD | A |
| Gateshead CB | A |
| Gillingham (Dorset) | A2 |
| Gillingham (Kent) | A1 |
| Glastonbury & Street | A2 |
| Glossop | A |
| Gloucester | A |
| Gloucestershire, Cnty. of | ‡A2 |
| Godalming | A2 |
| Goole, MB | A |
| Goole RD (part—Airmyn, Hook) | A |
| Gosport | A |
| Grantham MB | A |
| Gravesend | A |
| Grays Thurrock UD Area | A |
| Great Yarmouth | A |
| Grimsby CB | A |
| Grimsby RD (part) | A |
| Guildford District | A2 |
| Halesowen MB | A |
| Halifax CB | A |
| Halstead | A2 |
| Haresfield | A1 |
| Harlow | A |
| Harpenden | A |
| Harrogate MB | A |
| Hartlepool B | A |
| Harwell | A2 |
| Harwich | A |
| Haslemere | A2 |
| Hastings | A2 |
| Hatfield (Herts) | A |
| Havant | A |
| Haywards Heath | A2 |
| Heanor UD | A |
| Hemel Hempstead | A |
| Henley-on-Thames | A2 |
| Hereford | A2 |
| Herefordshire, Cnty. of | ‡A2 |
| Herne Bay | A2 |
| Hertford | A |
| Hexham RD | A |
| Hexham UD | A |
| Heysham | A |
| Heywood | A |
| Higham Ferrers MB | A |
| High Wycombe | A |
| Hinckley UD | A |
| Hitchin | A |
| Hoddesdon | A |
| Holywell | A |
| Horley | A2 |
| Horncastle UD | A2 |
| Horsham | A2 |
| Horwich | A |
| Huddersfield CB | A |
| Hull | A |
| Hunstanton | A2 |
| Huntingdon (Staffs) | A |
| Ilkeston MB | A |
| Ilkley UD | A |
| Ipswich | A |
| Isle of Sheppey | A2 |
| Isle of Thanet | A2 |
| Isle of Wight | A2 |
| Ilfracombe | A2 |
| Jarrow B | A |
| Keighley MB | A |
| Kendal | A |
| Kenilworth UD | A |
| Kettering MB | A |
| Keynsham | A |
| Kidderminster MB | A |
| Kingskerswell | A1 |
| King's Lynn | A1 |
| Kingsteignton | A1 |
| Kirkham | A |
| Knaresborough UD | A |
| Knutsford | A |
| Lancaster | A |
| Leamington MB | A |
| Leatherhead | A |
| Leeds CB | A |
| Leek UD | A |
| Leicester CB | A |
| Leighton Buzzard | A1 |
| Leiston | A2 |
| Leominster | A2 |
| Letchworth | A |
| Lewes | A2 |
| Lichfield MB | A |
| Lincoln CB | A |
| Liskeard | A2 |
| Littlehampton | A2 |
| Liverpool | * |
| Llandudno | A1 |
| Llanelly (incl. Llanelly RD) | A |
| Llanfairfechan | A2 |
| Llangollen | A2 |
| London | * |
| Long Eaton | A |
| Looe | A2 |
| Loughborough MB | A |
| Louth MB | A1 |
| Lowestoft | A |
| Loxton | A2 |
| Ludlow MB | A2 |
| Ludlow RD | A2 |
| Luton | A |
| Lyme Regis | A2 |
| Lyneham (Devon) | A2 |
| Lytham | A |
| Macclesfield | A |
| Maidenhead | A |
| Maidstone | A |
| Maldon (Essex) | A1 |
| Maltby UD | A |
| Malton UD | A2 |
| Malvern UD | A1 |
| Manchester | A |
| Manningtree | A1 |
| Mansfield MB | A |
| March | A2 |
| Margate | A2 |
| Market Harborough RD | A1 |
| Market Harborough UD | A |
| Market Rasen UD | A2 |
| Martock | A2 |
| Maryport | A |
| Matlock UD | A |
| Melksham | A2 |
| Melton Mowbray UD | A1 |
| Merionethshire | A2 |
| Merthyr | A |
| Mexborough UD | A |
| Middlesbrough CB | A |
| Middleton | A |
| Middlewich | A |
| Mildenhall | A2 |
| Milford Haven UD | A1 |
| Minehead | A2 |
| Monmouth—Borough of | A1 |
| Monmouthshire | A1 |
| Morecambe | A |
| Moreton Valence | A2 |
| Morley | A |
| Morpeth B | A |
| Morpeth RD | A |
| Mundesley | A2 |
| Nantwich | A |
| Neath & Valley | A |
| Nelson | A |
| Newark MB | A |
| Newbury | A2 |
| Newcastle-on-Tyne CB | A |
| Newcastle-under-Lyme | A |
| New Forest District | A1 |
| Newmarket | A1 |
| Newport, Mon. | A |
| Newport Pagnell | A2 |
| Newquay | A2 |
| Newton Abbot | A1 |
| Normanton UD | A |
| Northallerton District | A |
| Northallerton UD | A |
| Northampton CB | A |
| North Shields | A |
| North Walsham | A2 |
| Northwich | A |
| Norton Radstock | A1 |
| Norwich | A |
| Nottingham CB | A |
| Nuneaton MB | A |
| Oakham RD | A2 |
| Oakham UD | A2 |
| Okehampton | A2 |
| Oldham | A |
| Ongar | A |
| Ormskirk | A |
| Ossett & Horbury | A |
| Oswestry | A2 |
| Oundle UD | A2 |
| Oxford | A |
| Oxted | A1 |
| Padstow | A2 |
| Paignton | A1 |
| Par | A2 |
| Pembrokeshire (except Milford Haven) | A2 |
| Penmaenmawr | A2 |
| Penrith UD | A1 |
| Penzance | A2 |
| Peterborough, Soke of (Eastern Regional portion) | A1 |
| Petersfield | A2 |
| Pickering | A2 |
| Plymouth | A |
| Pontefract MB | A |
| Pontypool & District | A |
| Pontypridd District | A |
| Porthcawl | A |
| Portishead | A |
| Portland Bill | A1 |
| Portsmouth | A |
| Port Talbot | A |
| Preston | A |
| Princetown | A2 |
| Pudsey MB | A |
| Pulborough | A2 |
| Radnorshire, County of | ‡A2 |
| Ramsgate | A2 |
| Raunds UD | A |
| Rayleigh | A |
| Reading | A |
| Redcar B | A |
| Redditch UD | A |
| Redhill & Reigate | A |
| Rhondda Valley | A |
| Richmond B (Yorks) | A |
| Ripon MB | A2 |
| Rochdale | A |
| Rochester | A1 |
| Ross-on-Wye | A2 |
| Rossendale Valley | A |
| Rotherham CB | A |
| Royston | A1 |
| Rugby MB | A |
| Rugeley UD | A1 |
| Rushden UD | A |
| Saffron Walden | A2 |
| St. Albans | A |
| St. Austell | A2 |
| St. Helens | A |
| St. Neots | A2 |
| Salisbury City | A2 |
| Salisbury Plain | A2 |
| Sandy | A2 |
| Sawbridgeworth | A |
| Saxmundham | A2 |
| Scarborough MB | A |
| Scunthorpe MB | A |
| Seaford & Newhaven | A2 |
| Selby UD | A |
| Sevenoaks | A |
| Shaftesbury | A2 |
| Sheerness | A2 |
| Sheffield MB | A |
| Shepton Mallet | A2 |
| Sherborne | A2 |
| Shipley | A |
| Shoeburyness | A |
| Shoreham | A |
| Shrewsbury MB | A |
| Sirhowy Valleys | A |
| Sittingbourne | A2 |
| Skegness UD | A1 |
| Skipton UD | A |
| Sleaford UD | A1 |
| Slough, Windsor & Eton District | A |
| Smethwick CB | †A |
| Snettisham | A2 |
| Solihull UD | A |
| Somerset, County of | ‡A2 |
| Southampton and Eastleigh | A |
| Southend-on-Sea Dist. | A |
| Southport | A |
| South Shields CB | A |
| Southwold | A2 |
| Spalding UD | A1 |
| Stafford MB | A |
| Staines | A |
| Stamford MB | A1 |
| Stantonwick | A |
| Stevenage | A |
| Stockport | A |
| Stockton RD | A |
| Stockton-on-Tees B | A |
| Stoke-on-Trent CB | A |
| Stoke Orchard | A1 |
| Stourbridge MB | A |
| Stourport UD | A |
| Stowmarket | A1 |
| Stratford-on-Avon MB | A |
| Stroud (RD Area) | A1 |
| Sunderland CB | A |
| Sunningdale | A1 |
| Sutton Coldfield MB | A |
| Swadlincote UD | A |
| Swaffham | A2 |
| Swanage District | A1 |
| Swansea | A |
| Swindon District | A |
| Swinton UD | A |
| Tamworth MB | A |
| Taunton | A2 |
| Tavistock | A2 |
| Tenterden | A2 |
| Teignmouth | A2 |
| Tewkesbury | A1 |
| Thames Haven | A |
| Thetford | A2 |
| Thirsk RD | A |
| Thorpe Bay | A |
| Thurrock UDC Area | A |
| ,, North of to Billericay | A |
| Tilbury | A |
| Todmorden MB | A |
| Tonbridge | A1 |
| Torquay | A1 |
| Totnes | A1 |
| Tring | A2 |
| Trowbridge | A2 |
| Truro | A2 |
| Tunbridge Wells | A1 |
| Tynemouth CB | A |
| Ulverston | A |
| Uppingham (Salop) | A1 |
| Uttoxeter RD | A2 |
| Uttoxeter UD | A1 |
| Wakefield CB | A |
| Wakefield RD | A |
| Walsall CB | A |
| Wallsend B | A |
| Walsden | A |
| Walton-on-Naze | A1 |
| Ware | A |
| Warminster | A2 |
| Warrington | A |
| Warwick MB | A |
| Wednesbury MB | A |
| Wellingborough UD | A |
| Wellington UD | A |
| Wellington (Somerset) | A2 |
| Wells (Norfolk) | A2 |
| Wells (Somerset) | A2 |
| Welwyn | A |
| Welwyn Gar. City | A |
| West Bromwich CB | A |
| Westbury | A2 |
| Westcliff-on-Sea | A |
| Westerham | A1 |
| West Hartlepool CB | A |
| Westmorland (except Kendal) | A2 |
| Weston-super-Mare | A1 |
| Weybridge | A |
| Weymouth (including Portland Bill, excluding Portland Stoneyards) | A1 |
| Whitby UD | A1 |
| Whitby RD | A1 |
| Whitehaven | A |
| Whitley & Monkseaton UD | A |
| Whitstable and District | A2 |
| Wickford | A |
| Widnes | A |
| Wigan | A |
| Wigton | A2 |
| Wilmslow | A |
| Wilts. County of | ‡A2 |
| Wimborne | A1 |
| Wincanton | A2 |
| Winchester | A1 |
| Windermere | A2 |
| Wisbech | A2 |
| Witham | A1 |
| Withernsea UD | A |
| Woking | A1 |
| Wokingham | A2 |
| Wolverhampton CB | A |
| Wolverton District | A2 |
| Woodbridge | A2 |
| Woodhall Spa UD | A |
| Woodstock | A2 |
| Worcester CB | A |
| Workington | A |
| Worksop MB | A |
| Worthing | A2 |
| Wrexham (incl. Cefn) | A |
| Wroughton | A1 |
| Wylam | A |
| Wymondham | A2 |
| Yate | A2 |
| Yeovil Borough | A1 |
| York CB | A |
| Ystalyfera | A |

For Birkenhead, Liverpool and London the rates are:—Craftsmen, 4s. 5d.; Labourers, 3s. 10½d. In the case of London the rate beyond the 12-mile radius is: Craftsmen, 4s. 4½d.; Labourers, 3s. 10d. †Plus 2d. per working day. ‡This is the County rate and applies except where higher grades are stated.

NOTE.—Carpenters and Joiners providing own tools when employed in establishments operating under the Supplementary Rules for Woodworking Factories and Shops, receive 2d. per day; when employed on other building industry work, 4d. per day.

WOMEN'S RATES.—In all districts throughout the country the rate of wages for women engaged in craft processes is 3s. 5d. per hour. Women engaged on work other than craft processes, 3s. 1d. per hour.

For Building Trade Wages in Scotland see page 84

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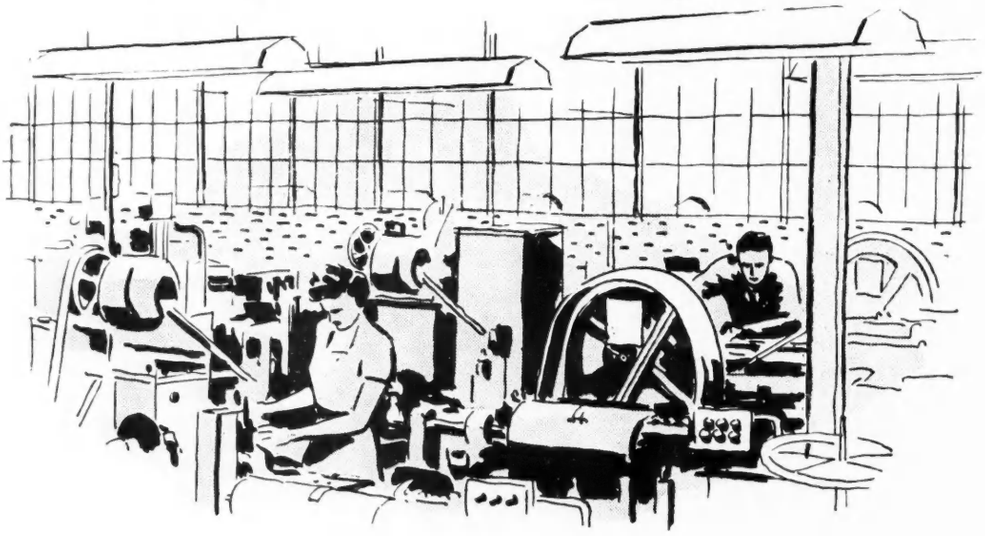

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## NEWS IN BRIEF

### *Road-making Film*

THERE is in this country, on loan to Machinery (Continental), Ltd., a film describing the fully-mechanised methods of road construction used in France today. Called "Les Belles Routes de France," the film is in colour and deals with the many and varied forms of equipment supplied by the Richier Group and used in the construction of the roads. It is an excellent production, the commentary is in English and is given with a complete absence of advertising. It is understood that the borrowers, Machinery (Continental), Ltd., of 175, Brompton-road, London, SW3, would agree to the loan of the film to Technical Colleges, Schools of Architecture and professional organisations who are interested. The film size is 16mm., and the running time is 20 minutes.

### *Marchwood Generating Station*

We regret that in illustrating Marchwood Generating Station in our last issue, the important part played by Staverton Builders, Ltd., of Totnes, Devon, was incorrectly described. This firm were the direct main building contractors to the Central Electricity Authority for the superstructure works, Sir Robert McAlpine and Son, Ltd., being concerned with the foundations and river works.

### *Cost Limits on School Furniture*

In *The Builder* of June 15, reference was made to a Ministry of Education Circular Number 304 on cost limits on furniture and equipment in new educational buildings. The Ministry has informed us that they have a correction to the paragraph beginning "Housecraft rooms . . ." The last three lines should read "These figures exclude [not include] provision for the furnishing of a small 'mock-up' training flat."

### *Employment Figures*

The number in employment in building and contracting at the end of May was 1,505,000, an increase in the month of 17,000.

### *UN Bulletin on Europe's Housing*

The Fourth Quarter, 1955, Bulletin of Housing and Building Statistics for Europe has been published by the Economic Commission for Europe of the United Nations. It gives information on housing in the countries of Europe and also includes tables on the costs of building. The Bulletin can be obtained from HM Stationery Office, price 4s. 6d.

### *Clerks of Works Lecture*

The Institute of Clerks of Works of Great Britain Incorporated are promoting a lecture on "Reconstructed Stone and Decorative Cast Concrete," by Mr. T. D. Smith, AMICE, at the RIBA on October 17. Tickets for the lecture, which is open to all interested, can be obtained from Mr. R. Harmer, 80 Stag Leys, Ashtead, Surrey, on receipt of a stamped, addressed envelope.

### *British Goods at Paris Exhibition*

British goods have seen some success at the Second International Building and Public Works Exhibition held in June in the Park of St. Cloud, Paris. Twenty-four British firms exhibited in the public works equipment section and all report large orders and many inquiries. There was some disappointment, however, in the fact that no British builder exhibited a house in the International village, or displayed building materials for tropical countries. An interesting official French exhibit was a plastic house designed by M. L. Schein. Built entirely of polyester panels and plexiglass structurally, the house contained nothing but plastic materials which included curtains, carpets, and bed and chair covers.

### *Nuclear Power Stations*

Balfour, Beatty & Co., Ltd., and John Laing & Son, Ltd., have been appointed civil engineering contractors to the AEI-John Thompson Nuclear Energy Co., Ltd. The firms are associated with the AEI-John Thompson Nuclear Energy Co., in the preparation of a tender for a nuclear power station for the Central Electricity Authority. At the AEI Research establishment at Aldermaston Court AEI-John Thompson is building Britain's first privately owned research reactor, and Britain's first overseas order for a nuclear reactor has just been placed with the company by the West German Government. Messrs. W. S. Atkins & Partners, consulting engineers, of Victoria-street, London, SW1, are acting as consultants for the whole of the civil engineering and services.

### *RIBA Golfing Competition Results*

The summer meeting, 1956, of the RIBA Golfing Society took place at the Royal Cinque Ports Golf Club, Deal, and Princes' Golf Club, Sandwich. Results: Allensby Bowl; 1st, Walter Fisk, FRIBA, 34½ points; runner-up, Sir Giles Gilbert Scott, P-PRIBA, 32½ points. Four-ball bogey competition, 1st, E. H. Firmin and R. Duncan Scott, 2 up; runners-up, S. H. Statham and H. Cullerne-Pratt, 1 up. The Captain's Prize, Harold Cullerne-Pratt, ARIBA, 86 less 9=77; runner-up, Sir Giles Gilbert Scott, 91 less 14=77. The President's Prize, E. H. Firmin, FRIBA, 34½ points; H. J. Stribling, FRIBA, 33½ points.

## OBITUARY

### *Charles Harold Taylor, P-PIAAS*

We regret to record the death of Mr. Charles Harold Taylor, P-PIAAS, which took place suddenly at his home at Twickenham on July 4. He practised in London for many years and was responsible for some important work. Of late he had practised in London on his own account. Before then he was a partner in two firms of quantity surveyors, Taylor and Smith, and Hogg and Keay. He was a past-president of the Incorporated Association of Architects and Surveyors of which he was a member of the Council for some 25 years.

Major G. B. J. Athoe writes: He was a man of marked competence in his profession, and one of great charm of manner and courtesy.

### *George Pemberton Allen, FRIBA*

We regret to record the death, on July 8, of Mr. George Pemberton Allen, FRIBA, of 120, Parkway, Welwyn Garden City, late of Bedford.

## BOOK

IHVE GUIDE TO CURRENT PRACTICE. Compiled by the "Guide Committee" of the Institution of Heating and Ventilating Engineers. Pp. 424. (London: IHVE.) Price 65s.

PREVIOUSLY this book has only been available to members of the IHVE in loose-leaf form but owing to demand for it from non-members it has been published as a book, and has been revised and expanded. It is divided into 15 sections, each section being full of necessary tables, charts and diagrams. At the end of the book is what is called a "Subject and Author Index" to papers published in the records of the Institution. This section will be extremely useful to researchers. A most useful book for heating and ventilation engineers, and also for those people who have sufficient knowledge of the subject to appreciate the relative importance of the factors involved.

## THE POLISH BUILDING INDUSTRY

### *Recent Achievements and Future Prospects*

SPEAKING recently in Warsaw, Dr. Jedrychowski, deputy chairman of the Polish Council of Ministers, presented a survey of progress in the building industry, with some interesting pointers for the future.

In 1955, with a building force of 600,000, a total volume of 46m. cubic metres of building was completed. A little under half of this was urban building, industrial building accounted for one fifth, and the remainder was building in rural areas.

Looking back over the period of the Six-Year Plan which terminated at the end of last year. Dr. Jedrychowski recalled that 12,000 industrial buildings had been completed during that time. In the housing field, during these six years 817,000 rooms (13m. sq. metres of floor space) were made available for occupation in towns. In public building, 2,000 schools were erected, as well as hospitals with accommodation amounting to 11,000 beds, and over 1,000 rural cinemas.

So far as future housing plans are concerned, Dr. Jedrychowski indicated that between now and 1960 at least 1,200,000 living rooms will be constructed.

Industrialisation of building methods is to play an important part in the expansion planned for the next five years in all fields. Factories, both permanent and mobile, for production of prefabricated ferro-concrete elements are to be built on a large scale, so that by 1960 total production of these elements will amount to 3.2m. cubic metres.

Between 1949 and 1955 cement production rose by over a million tons to 3,813,000 tons; brick production (at 2,744m. pieces in 1955) was also more than a million up; central heating boilers and radiators were being produced in over four times the 1949 quantity. For the future, an increase of cement production to 6,750,000 tons in 1960 is envisaged.

Finally, Dr. Jedrychowski emphasised the desirability of exchanges of experiences in the building field with as many countries as possible.

## RECENT BRITISH TRADE MARKS

THE following particulars, which are extracts from the *Trade Marks Journal*, are reproduced with the permission of the controller of HM Stationery Office. The *Trade Marks Journal* can be obtained from the Patent Office, annual subscription £5.

CAMKOTE: 748604. Priming preparations, undercoatings and enamels all in the nature of paint. Alex. Cameron & Sons, Ltd., Hudson-rd., Sunderland.

CALDIOX: 749498. Paints. Associated Lead Manufacturers, Ltd., 14, Finsbury-cir., London, EC2.

FAROPRIME: 750766. Priming paints. T. & W. Farmiloe, Ltd., 19 to 23, Rochester-row, London, SW1.

ASYDOLAC: 751391. BESONITE: 751392. Paints, varnishes, distempers, japans, lacquers and wood preservatives. Screeton Paintmaker, Ltd., Fishers-ct., Besson-st., London, SE14.

ANTYKEM: 751255. Paints, varnishes, enamels, painters' colours, distempers and anti-corrosives. T. & W. Farmiloe, Ltd., 19 to 23, Rochester-row, London, SW1.

MR. CHIPS: B749135. Sawn timber, plywood, doors, wallboards and wood veneers; and boards of wood fibre, wooden mouldings and woodwork, all for use in building. Flatau Dick & Co., 9, Camomile-st., London, EC3.

MALROS: 751511. Size included in Class 1. Wm. Butler & Co. (Bristol), Ltd., Silverthorne-la., St. Philips, Bristol.

MERIGLO: 748334. Paints, distempers, varnishes and enamels. Thomas Merry & Co., Ltd., A.B. Row, Birmingham, 4.

THIXAMEL: 751086. Paints and coatings (in the nature of paint). Postans, Ltd., Trevor-st., Birmingham, 7.

EPINAMEL: 751263. Enamels in the nature of paint. Arthur Holden & Sons, Ltd., Bordesley Green-rd., Birmingham.

FITARD: 752206. Paints, varnishes, enamels, distempers, japans and wood preservatives. Bitulac, Ltd., Collingwood-st., Newcastle-on-Tyne.

TRIXO: 752384. Paints, varnishes, distempers, japans and wood preservatives. Alexander Fergusson & Co., Ltd., 50, Ruchill-st., Maryhill, Glasgow.

EJECTA: 742442. Building materials, wall tiles and floor tiles, all made of plastics. James Halstead, Ltd., Crow Oak Works, off Radcliffe New-rd., Whitefield, Manchester.

NAPOLEX: 749651. Pipes and tubes all made wholly or principally of plastics and being for use in building and civil engineering construction. National Plastics (Sales), Ltd., Walthamstow-ave., London, E4.

SYLGLAS: 750613. Material in strip form, composed of cotton impregnated and coated with petroleum jelly and containing fillers and extenders, for use in building construction and repair as a glass-fixing medium. Winn & Coales, Ltd., Saville Works, Croydon-rd., Beckenham, Kent.

EPIMASTIC: 752008. Paints, varnishes, lacquers; and preservatives against rust and against deterioration of wood. Wailes Dove Bitumastic, Ltd., Hebburn, County Durham.

BRICCO: 748324. Building mortars. J. A. Trubody, Ltd., London-rd., Warmley, near Bristol.

TAFFANOL: 748860. Paints, varnishes, lacquers and preservatives against rust and deterioration of wood. Pearl Varnish Co., Ltd., Treforest Trading Estate, Pontypridd, Glam.

RILTEX: 747688. Tiles made of thermoplastics or of rubber. Rubber Improvements, Ltd., London-rd., Wellingborough.

EVODE-INSUL: 749309. Bituminous preparations (not being paints) for use in building. Evode, Ltd., Glover-st., Stafford.

USENAB HOMES: 751646. Buildings (none being fixed metal structures); and non-metallic building materials. B. C. Rae & Co., 44, Hanover-st., Edinburgh, 2.

GELTEX: 741512. Paints, varnishes, distempers, japans and lacquers. British Paints, Ltd., Portland-rd., Newcastle-on-Tyne.

BITUCOLA: 752971. Paint. Supra Chemicals and Paints, Ltd., Hainge-rd., Tividale, Tipton, Staffs.

THERMACLIN: 750634. Clinker blocks for use in building construction. Vibrocrete (Mexborough), Ltd., Manor Farm Works, Church-st., Mexborough.

FLEXIKOTE: 750892. Roofing cement. Solvolene Lubricants, Ltd., 24, Reginald-sq., London, SE8.

STRUCTUSEAL: 751643. Bituminous compounds (not being paints) for use in waterproofing roofs and the like building surfaces. Structural Waterproofers, Ltd., 5, Nigel Playfair-ave., London, W6.

## NEW COMPANIES

THE FOLLOWING NEW COMPANIES, registered in England, have been announced by Jordan and Sons, Ltd., company registration agents.

G. Simpson (Constructions), Ltd. (566730.) Regd. May 30, 1956. 77, Portland-pl., W1. Bldrs. Nom. cap.: £100. Dir.: G. S. P. Simpson, 107, Weald-la., Harrow Weald, Middx.

L. M. Cross & Co., Ltd. (566732.) Regd. May 30, 1956. 300/2, Uxbridge-rd., Shepherds Bush, W12. Bldrs. and contrs. Nom. cap.: £5,000. Dir.: C. E. Blunden.

R. L. Elliott (Contractors), Ltd. (566736.) Regd. May 30, 1956. 163d, High-st., Hornchurch, Essex. Bldrs. Nom. cap.: £100. Dir.: R. L. Elliott, The Cobblers, Hanging Hill-la., Hutton, nr. Brentwood, Essex.

Edwards & Son (Malmesbury), Ltd. (566755.) Regd. May 30, 1956. 12, High-st., Malmesbury, Wilts. Bldrs. Nom. cap.: £5,000. Dir.: M. J. Hoskins, Kellaways, Chippenham.

J. MacNamara, Ltd. (566763.) Regd. May 30, 1956. Bldg. contrs. Nom. cap.: £100. Dir.: J. C. MacNamara, 232, Hayes-la., Bromley, Kent.

R. H. Warner, Ltd. (566769.) Regd. May 30, 1956. 20, Westway, Shepperton, Middx. Bldrs. Nom. cap.: £1,000. Dir.: R. H. Warner.

Thos. E. Wright & Sons, Ltd. (566772.) Regd. May 30, 1956. 118, Old Farleigh-rd., Selsdon, Surrey. Bldrs. Nom. cap.: £1,000. Dir.: G. Wright.

Hunt and Tose, Ltd. (566889.) Regd. June 1, 1956. 44, West Dyke-rd., Redcar. Bldrs. Nom. cap.: £4,000. Permt. dir.: C. Hunt, 20, Easson-rd., Redcar.

Lonergan and Nicholson, Ltd. (566960.) Regd. June 1, 1956. Moulsford, Tavistock-rd., Roborough, Plymouth. Bldrs. Nom. cap.: £500. Dir.: W. H. Lonergan.

G. E. and W. Birch, Ltd. (566973.) Regd. June 2, 1956. 15, Gt. Western-rd., W9. Bldrs. Nom. cap.: £100. Dir.: G. E. Birch, 11, Bevington-rd., Kensington, W10.

Frank Coles (Builders), Ltd. (566993.) Regd. June 2, 1956. The Bungalow, 11, North-rd., Stibbington, Wansford, Hunts. Bldrs. Nom. cap.: £2,500. Dir.: F. Coles.


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Taylor & Whittaker, Ltd. (567005.) Regd. June 2, 1956. 12, Tiverton-dr., Sale. Bldrs. Nom. cap.: £1,000. Dir.: W. Taylor, 79, Sandacre-rd., Wythenshawe, Manchester.

R. Blower and Sons, Ltd. (567085.) Regd. June 5, 1956. 48, Belvoir-rd., Coalville, Leics. Bldrs. Nom. cap.: £100. Dir.: J. H. Scott, 116, Ashburton-rd., Hugglescote, Coalville, Leics.

Avon Valley Construction, Ltd. (567106.) Regd. June 6, 1956. 21, High-st., Christchurch, Hants. Bldrs. Nom. cap.: £5,000. Dir.: L. W. Frampton, Oakdale, Ringwood-rd., Bransgore, Christchurch.

R. Howick and Co., Ltd. (567140.) Regd. June 6, 1956. Morris-rd., South Nutfield, Surrey. Bldrs. Nom. cap.: £500. Dir.: R. Howick, Manzelna, Kings Cross-la., South Nutfield, Surrey.

Geo. Heapy, Ltd. (567192.) Regd. June 7, 1956. 45, Ludgate-hill, EC4. Bldrs. Nom. cap.: £100. Dir.: G. W. Heapy, 20, Thessaly-sq., SW8.

Hazell and Potts, Ltd. (567194.) Regd. June 7, 1956. 53, Albion-rd., St. Peter's, Broadstairs, Kent. Builders. Nom. cap.: £10,000. Permt. dir.: E. P. Hazell, 77, Dane-cres., Ramsgate.

McGowan Liddle, Ltd. (567205.) Regd. June 7, 1956. 80-82, Little Albany-st., NW1. Bldrs. Nom. cap.: £1,000. Dir.: E. W. McGowan, 73, Lothair-rd., Hornsey, N4.

Robert Harrison and Sons, Ltd. (567213.) Regd. June 7, 1956. 129, Wales-rd., Kiveton-Park, nr. Sheffield. Bldrs. Nom. cap.: £2,000. Dir.: R. C. Harrison.

Gibbs and Partners (Contractors), Ltd. (567268.) Regd. June 8, 1956. 95, Park-la., W1. Bldrs. and contrs. Nom. cap.: £100. Permt. dir.: J. G. Carline.

G. J. Freedman (Builders), Ltd. (567269.) Regd. June 8, 1956. 203, Regent-st., W1. Nom. cap.: £100. Dir.: J. Freedman.

Norclum, Ltd. (567281.) Regd. June 8, 1956. 266, Kenton-rd., Harrow, Middx. Bldrs. Nom. cap.: £100. Dir.: H. F. Melhuish.

R. Bennett, Ltd. (567285.) Regd. June 8, 1956. Jews-la., Upper Gornal, Staffs. Bldrs. Nom. cap.: £5,000. Permt. dir.: J. B. R. Bennett.

W. Moore and Son (Builders), Ltd. (567298.) Regd. June 8, 1956. 43, Fleece-st., Keighley, Yorks. Nom. cap.: £4,000. Dir.: W. Moore, 90, Banks-la., Riddlesden, Keighley.

Fernbourne Houses, Ltd. (567339.) Regd. June 9, 1956. Bldrs. Nom. cap.: £100. Sub.: Mrs. H. Landau, 32, Hornton-ct., W8.

York and District Builders, Ltd. (567412.) Regd. June 11, 1956. 1, New-st., York. Nom. cap.: £100. Permt. dir.: C. Pickup, 16, Upper Newboro'-st., Bootham, York.

Connolly Bros. (Builders), Ltd. (567422.) Regd. June 12, 1956. Captain Fold, Haslingden-rd., Rawtenstall, Lancs. Nom. cap.: £2,000. Permt. dir.: J. Connolly, Ash Day Lea Lodge, Rawtenstall, Lancs.

Midbeds Development, Ltd. (567450.) Regd. June 12, 1956. 4, Dove-ct., Old Jewry, EC2. Bldrs. and bldg. contrs. Nom. cap.: £200. Dir.: L. A. Traherne, The Manor House, Barton-le-Clay, Beds.

V. E. Turner and Son, Ltd. (567464.) Regd. June 12, 1956. The Willows, Pentlow, Essex. Bldrs. Nom. cap.: £2,000. Dir.: V. E. Turner.

Trent Bridge Construction Co., Ltd. (567517.) Regd. June 13, 1956. 36, Westminster Palace-gdns., SW1. Bldg. and civil engng. contrs. Nom. cap.: £100. Sub.: H. T. Shearing.

V. J. Driver, Ltd. (567518.) Regd. June 13, 1956. Red Cedars, The Street, Plaxtol, Kent. Bldrs. Nom. cap.: £1,000. Sub.: V. J. Driver.

Winston Court Developments, Ltd. (567535.) Regd. June 13, 1956. Bldrs. contrs. Nom. cap.: £100. Dir.: R. C. Watson, 29, Linksway, Northwood, Middx.

Marsh and Edwards, Ltd. (567557.) Regd. June 13, 1956. 63, Alexandra-rd., Morecambe and Heysham. Bldrs. and contrs. Nom. cap.: £1,000. Dir.: D. Edwards, 94, Beaufort-rd., Morecambe.

James and James (Builders), Ltd. (567625.) Regd. June 15, 1956. Stanley Works, Hewlett-rd., Cheltenham. Nom. cap.: £2,000. Sub.: C. I. James, Hilltop, Church-st., Charlton Kings, Glos.

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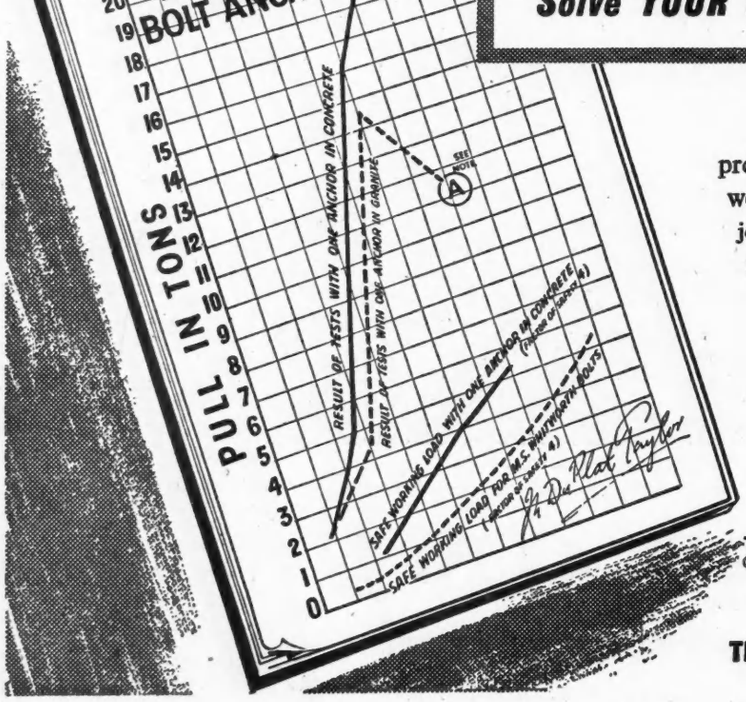


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# OVERSEAS BUILDING

### *From Our Own Correspondents*

*INDONESIA.*—It has been announced that a five-year plan of reconstruction will shortly be submitted to the Indonesian Parliament. Projects which will be started include hydro-electric works as Asahan and Tjati-Luhur (a French firm is at present doing preliminary work) and a fertiliser plant, and a large-scale irrigation scheme. New airports are to be built at Djailolo on Halmahera Island (N. Moluccas) and Surabaya. The latter airport will take five years to complete, it is stated, and will cost in the region of £2m.

The West German firm Wedexro has now surveyed the area of Lampong in Sumatra for iron ore and manganese ore. The firm is on contract to the State Planning Bureau with the object of advising on the possibility of setting up a steel industry. A report will be ready by next April. The Bank Industri Negara has bought nine hectares of ground near Blabag (Magelant, Java) for a paper mill which will cost about a £1m. It is to be completed by 1958. So far no concrete plans have been made for it.

*IRAQ.*—The revised development programme received Parliamentary approval at the end of last month. Compared with the original five-year development programme estimated expenditure under the new programme has been greatly increased. Schemes include flood control, drainage and irrigation; roads and bridges; railways; port at Umm Qasr; public buildings; industry, mining, and electricity, and housing. The following tenders have been called for: sewage treatment plant for Bagdad Central Dairy; Mosul Textile Factory housing scheme; pipelines, boilers and equipment for Bagdad Central Dairy; and construction of the Bagdad to Samarra road.

A call for tender is expected soon for the construction of a new grain silo at Basra. The site was inspected recently and comprises 15,000 square metres. The storage capacity of the new silo will be about 65,000 metric tons and it is expected to handle one million tons of grain a year. The first call for tender for the Bagdad sewage scheme is expected to be issued in September. It will comprise main and subsidiary drains, pumping stations and the first section of a treatment plant. This contract will be mainly civil engineering.

The Development Board's consultant, Dr. Doxiades, has carried out a housing tour of provincial towns and rural areas in order to draw up a report on Iraq's long-term housing programme. It is anticipated that between 60,000 to 100,000 houses will have to be built during the next five years. It is understood that there has been little interest shown in these schemes from British contractors.

*MALAYA.*—The Singapore Improvement Trust plans to build twenty blocks of low-cost seven-storey flats and thirty blocks of four-storey flats on the site of the former Kallang airport. The scheme includes 52 shops and a large market. The whole project is estimated to cost about £3m. and will house more than 10,000 people.

During the next three years 10 major buildings will be erected in Singapore at a cost of more than £6m. These are the Shell Company's 14-storey building on Collyer Quay, the American International Assurance Company's 11-storey building in Robinson-road, the East Asiatic Company's Denmark House in Raffles Quay, the *Straits Times* new building in River Valley-road, the Commercial Union Assurance Company's six-storey offices in Robinson-road, new offices for Optorg Co., Ltd., in Robinson-road, the Singapore Polytechnic, the Teachers' Training College, four new blocks for the Tan Tock Seng Hospital and the four-storey Central Telephone Exchange. Work planned by the City Council of Singapore includes a fire station, and two public swimming pools.

The Singapore Government also plans to build 27 community centres in the city and rural areas of the colony during the next five to ten years. The Franciscan Missionaries plan to build a small hospital costing over £100,000 in place of the original Mount Alvernia scheme which would have cost nearly twice as much. It is hoped that building on the seven-acre site will begin before the end of the year. Work has now begun on the construction of a six-storey block of government offices in Petalang Jaya the satellite town of Kuala Lumpur. The whole block will be air-conditioned, and will cost about £2m.

Plans have been made to build a seven-storey hotel at a cost of £250,000 on four acres of land at the junction of Treacher-road and Ampang-road in Kuala Lumpur. The Government has now reverted to the original Port Swetttenham plan which envisages the construction of a new port in the North Klang Straits a little to the north of the present port. The site will have the advantage of naturally deep water but on land there is mangrove swamp which will require costly preparation before any building can take place. It is hoped that initial work on the site will begin towards the end of this year.

Tenders will be called soon to build the double-decker bridge over the Klang River at Klang. The Public Works Department said that tenders will be accepted from firms of International repute with experience in sinking deep caissons using compressed air. The upper deck of the bridge will be for vehicles and the lower one for cyclists and pedestrians. The total length of the bridge and viaducts will be 1,438 feet. It is understood that all steel will be made in England and it is expected that the bridge will take 2½ years to build. The Malayan Railway plans to build a short line from the Golden Blowpipe route at Bahau to Seremban so as to reduce the route by 50 miles between the East Coast and Kuala Lumpur. The East Coast railway has given rapid access to Singapore from Kelantan and Pehang and it is hoped that the line can be improved by 1960 to enable trains to reach a maximum speed of 50 miles an hour.

A firm manufacturing natural foam rubber, the Malayan Latex Company Ltd., plans to build a larger factory to replace the one at Johore Bahru. Since it is expected that the Pasir Panjang power station will not be able to meet the electricity needs of Singapore by 1961 the City Council is planning to build another power station to meet the island's growing needs. The new station will probably be built near the Pasir Panjang station. Land is now being surveyed and boring tests made. The City Council is also to build a new gas plant using oil instead of coal. The plant will be capable of producing 4½m. cubic feet of gas a day and will be substituted for the new water gas plant originally proposed. In Sarawak the Director of Medical and Health Services has announced that a mental hospital is to be built at a cost of £250,000.

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### *Steel Bridges, Australia*

*The Secretary, Co-ordinator General's Department, Executive Building, George-street, Brisbane is calling for bids for the supply, fabrication, painting and delivery, at Kairi, Queensland, of all metal work except rails and field rivets for three railway bridges, one across each of Barron River, Peterson Creek and Mazzlin Creek on the Kairi to Yungaburra rail deviation. The closing date for tenders is August 13. (Tel.: Chancery 4411, ext. 738 or 771. Ref. No. ESB/16737/56).

* From the Board of Trade Special Register Information Service. The telephone number and extension at the end of the paragraphs relate to the department of the Export Service Branch, Lacon House, Theobalds-road, WC1, where further information can be obtained.

# The SCOTTISH BUILDER

### *Paisley Planning Proposals*

MR. JAMES STUART, Secretary of State for Scotland, on July 5 approved planning proposals for the area around Paisley Abbey which will allow redevelopment to proceed on lines substantially the same as those favoured by the town council.

The main proposals provide for diverting east-west through traffic from the town centre and for developing a site at Cartwalk as a commercial centre. The new by-pass will be formed by realigning Seedhill-road, building a new bridge over the river Cart to Bladda Car park, and realigning Canal-street.

The replanning of the Abbey area has been the subject of consultation between the Minister and the town council for more than three years.

It is intended that the construction of the bridge over the Cart should be undertaken some time between 1959 and 1973.

### *Housing Subsidies*

ON JULY 6, in Edinburgh, Mr. Stuart met representatives of the three local authority associations in Scotland. He hopes to announce in Parliament before the summer recess the proposed new subsidy rates for housing. The meeting discussed a report by a working party of officials of the associations, and the Department of Health for Scotland, appointed last April, when the review of subsidies was begun, to examine the relevant factors of the present housing situation.

### *Housing in May*

THE NUMBER of new houses completed in Scotland in May was 2,097, bringing the total this year to 10,929. Altogether 267,571 permanent houses have now been built in Scotland under the post-war housing programme. This is shown in the monthly return published by the Department of Health for Scotland and the Ministry of Housing and Local Government (HMSO, price 3d.). The total built in May, 1955, was 2,478; in the first five months of that year total completions numbered 12,898. The number of houses under construction at the end of May was 37,996, as compared with 35,046 a year ago.

### *New School by Development Team*

THE SCHOOL buildings development team of the Scottish Education Department is supervising the erection of the first school for junior secondary use planned by the team. Located at Udston-Hillhouse, Hamilton, the school project differs sharply from other schemes in progress in Scotland in two directions; new and fast methods of erection using newer materials are being tested to determine the value of prefabricated components; and the second aspect is that design is on the basis of groups of three blocks of six classes each, giving comprehensive "houses" within the school, as against departmental planning.

Designed on a two-storey basis, the school is being erected by the "Intergrid" system of construction using prestressed, precast concrete frame structures. Gilbert-Ash, Ltd., are the main contractors.

### NEW BUILDINGS

**Aberdeen.**—Plans in hand for over 70 houses which are to be erected at the Kincorth housing development. Council A: George Keith (F), Planning & Architectural Dept., Broad-st., The Castlegate, Aberdeen.

**Argyllshire.**—Plans in hand for new housing scheme at a Dalmally site. A and QS: Alexander Richardson (F), and David Johnstone, County Planning & Architectural Dept., Cowal Hotel-bldgs., Alexandria-pde., Dunoon.

**Barnock.**—Lanarkshire CC plans to build a new Prot. pub. sch. Council A: William R. Watt (F), Planning & Architectural Dept., Albert-st., Motherwell-Wishaw.

**Fifeshire.**—Plans in hand for over a hundred houses at Aberdour-rd. housing development site, Dunfermline. A: J. Austen Bent (A), 15 Palmerston-pl., Westend, Edinburgh.

**Glasgow.**—Plans in hand for new factory buildings at the North Cardonald industrial estate. A: Wylie, Shanks, & Wylie (F/A), 12 Claremont-gdns., Glasgow, WC3.

**Glasgow.**—Plans to be prepared for new proposed occupational centre at a site at Newlands. A: Planning & Architectural Dept., Municipal-bldgs., George-sq., Glasgow, C1.

**Glasgow.**—Plans in hand for the following houses at Easterwood Township Unit No. 2: 336 three-, 60 four-, and 20 five-apartment houses in three-storey terrace design. Unit No. 3: 468 three-, and 120 four-apartment houses consisting of three-storey blocks. A: Archibald G. Jury (F), Planning & Architectural Dept., Glasgow Cross, Glasgow, EC1.

**Glasgow.**—Plans prepared for Alexander Scott & Co. for new workshops at Firhill-rd. A: Charles Kenney, 16 Craigmount-st., Glasgow, NW2.

**Glasgow.**—Plans prepared for Murdoch Hillson Ltd. for additions and alterations at Mitchell-st. A: D. Murdoch Maclennan (F), 8 India-st., Glasgow, WC3.

**Glasgow.**—Plans prepared for additions and alterations at Springburn-rd., Townhead. A: James Rodger, 17 Springburn-rd., Glasgow, NC2.


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### SCOTTISH BUILDING TRADE WAGES

FOLLOWING are rates of wages authorised by the Scottish National Joint Council as from April 16, 1956. They apply to the whole of Scotland, including the islands of Orkney, Shetland, etc.

Grade A: Craftsmen 4s. 3½d.; Labourers 3s. 9d.

For apprentices, the rates are:

| *Year.* | *Percentage of Craftsman's rate.* | *For week of 44 hours.* s. d. |
|---|---|---|
| 1st | 25 | 47 2½ |
| 2nd | 33⅓ | 62 11½ |
| 3rd | 50 | 94 5 |
| 4th | 66⅔ | 125 10½ |
| 5th | 75 | 141 7½ |

For female labour, the rates are:

| | s. | d. |
|---|---|---|
| Operatives on craft operations (at end of probationary period) | 3 | 9 |
| Operatives on labouring operations (at end of probationary period) | 3 | 5½ |

**Glasgow.**—Plans prepared for Taggarts (Glasgow) Ltd. for additions and alterations at 336 to 350 Pollockshaws-rd. A: Thomas M. Miller (F), Commercial Bank-bldgs., Motherwell-Wishaw.

**Glasgow.**—Plans prepared for Neilly & Wilkinson Ltd. for additions and alterations at Virginia-st. A: William J. Gilmour (F), 253 Bath-st., Glasgow, WC2.

**Glasgow.**—Plans in hand for A. Gilmour & Co. Ltd., 14 North Bridge, Edinburgh, for additions and alterations at 1129 Pollockshaws-rd., Govanhill. A: James Taylor Thomson, MacCrae, & Saunders (F/A), 212 Bath-st., Glasgow, WC2.

**Glasgow.**—Plans prepared for two electricity stations by the engineers of The South of Scotland Electricity Board, 137 Almada-st., Hamilton West, one at Castlemilk-rd., the other at Midland-st.

**Glasgow.**—Plans prepared for scheme of reconstruction and additions at Glasgow-st. A: Thomas Johnstone, 56 Sword-st., Glasgow, NC1.

**Lanarkshire.**—Plans in hand for the Congregational Union of Scotland, for new Church Halls at Site 5 of the Murray Housing Development at East Kilbride. A: Cullen, Lochhead & Brown, & Hutson (F/F), 119 Cadzow-st., Hamilton West.

**Lanarkshire.**—Plans in hand for scheme of extensions to the jun. sec. sch. at Newmains. Council A: William R. Watt (F), Planning & Architectural Dept., Albert-st., Motherwell-Wishaw.

**Lanarkshire.**—Plans in hand for the Caltonpillar Traction Co. Ltd., Newton-rd., for new factory buildings and new offices at Tannockside. Consultant engrs: Horace Hamilton & Associates, Woodside-ter., Glasgow, WC3.

**Lanarkshire.**—Plans in hand for the BBC for extensions to the Scottish television station, at Kirk O'Shotts. A: R. H. S. Howell, Building Dept., BBC, Portland-pl., London, WC1.

**Lanarkshire.**—Plans in hand for the Archdiocese of Motherwell, for new Cath. Church halls at Calderbank, Airdrie. Particulars from J. Macsporran & MacCormick, 55 West Regent-st., Glasgow, WC2.

**Lanarkshire.**—Plans in hand for the Church of Scotland for additions and alterations at the Parish Church Halls, Main-st., Chryston. A: James Cleland, Lilybank-ave., Chryston.

**Lanarkshire.**—Plans in hand for Meredith & Drew Ltd., for additions and alterations to their factory at Fernigair, Hamilton. A: Cullen, Lochhead, & Brown, & Hutson (F/F), 119 Cadzow-st., West Hamilton.

**Lanarkshire.**—Plans prepared by the architects of Taylor-Woodrow Homes Ltd., Greenford, Middlesex, for new housing scheme which is to be erected at a Bishopbriggs site.

**Tarbert-Loch-Fyne.**—Plans in hand for extensions and additions at the Prot. sch. A & QS: William R. Tocher (F), and David Johnstone, Planning & Architectural Dept., Cowal Hotel-bldgs., Alexandria-pde., Dunoon.

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## CONTRACTS OPEN

For some contracts still open but not included in this list see previous issues. Those with an asterisk are advertised in this number. The dates at the heads of paragraphs are those for the submission of tenders; a dagger (†) denotes closing date for applications; the name and address at the end refer to the person from whom particulars may be obtained.

### BUILDING

**JULY 16.**

**†Brentford and Chiswick BC.**—List of approved contractors for building work. Boro' E&S.

**JULY 18.**

***†Durham CC.**—Child welfare centre, Billingham. County A, South-st., Durham.

***†West Sussex CC.**—Improvements sanitary accommodation at four schools. County A., Chichester.

**JULY 19.**

***†Surrey CC.**—One pair of inspectors' houses and one constable's house at Spital Heath, Reigate-rd., Dorking. County A.

**JULY 21.**

***†Hertford RDC.**—21 houses and site works. E. A. Williams, C. Dep. £3. Tenders by August 18.

**JULY 23.**

***Barrow-in-Furness CB.** — Demolition of buildings, Hindpool Flats. BS.

***†Devon CC.**—New buildings at Rolle College, Exmouth. Louis de Soissons, Peacock, Hodges, Robertson & Fraser, 12, Baring-cres., Exeter.

***Hertford BC.**—Adaptation of buildings as office accommodation and improvements and repairs to Corporation properties. BE&S. Dep. £3 3s.

***†Hornsey BC.**—20 flats and garages, Myddelton-rd., N8. BE&S. Tender by September 17.

***Huddersfield CB.**—Demolition of property Commercial-st. Estate and Property Manager, Railway-st. Dep. £2 2s.

**JULY 24**

***†Northamptonshire CC.**—New school at Barton Seagrave and at Wollaston. County A, Northampton.

**JULY 25.**

***†Durham CC.**—Additional accommodation at Seaham Harbour Deneside County Sch. County A, South-st.

**JULY 26.**

***Cuckfield UDC.**—8 dwellings, Chaloner-rd., Lindfield. S. Dep. £2 2s.

***†Ipswich CBC.**—8 houses at Castle Hill and 36 at Chantry estate. Boro' E&S. Dep. £3 3s. each contract. Tenders by August 30.

**JULY 27.**

***Acton BC.**—Additions, Rothschild-rd. school. Boro' Education Officer.

***†Bromley BC.**—60 flats, Martins-rd. BE. Dep. £2 2s.

***†Devon CC.**—Schools at Ashburton and Ivybridge. County A, 97, Heavitree-rd., Exeter.

**JULY 28.**

**Rawtenstall BC.**—Erection of dwellings at Balladen estate, 1A—18 bungalows and four houses. 1B—40 flats. 1C—13 houses. Any or all. E&S. Dep. £2 2s.

**JULY 31.**

***Banbury BC.**—12 flats, Orchard-way. BE&S. Dep. £3 3s.

**Banbury BC.**—Three-storey block of 12 two-bedroom flats at Orchard Way, Banbury. Boro' E&S. Dep. £3 3s.

**AUGUST 1.**

**Essex CC.**—Erection of milking parlour and covered yard at Bretts Farm, Romford-rd., Aveley. County Land Agent and Valuer, 69, Duke-st., Chelmsford.

**AUGUST 3.**

***Chadderton UDC.**—120 dwellings, Broadway housing site. E&S. Dep. £2 2s.

***†Worcester City C.**—Second instalment of Brickfields primary school. Watkins & Decker, quantity surveyors, 13, Gray's Inn-sq., London, WC1. Dep. £2 2s. Tenders by September 3.

**AUGUST 8.**

***Luton BC.**—Erection of mild steel balustrading to staircases and balconies at Runfold and Vauxhall Park estates. Boro' A, Town Hall. Dep. £2 2s.

**AUGUST 10.**

***Reigate BC.**—42 flats at Green-la. estate, Redhill. BE&S, Town Hall. Dep. £3 3s.

***York City C.**—40 flats, Navigation-rd. City A, 8, St. Leonard's-pl. Dep. £3.

**AUGUST 24.**

***Guildford BC.**—52 pairs of houses and 4 blocks of 8 flats at Park Barn and 11 pairs of houses at Old Farm-rd., and Woodlands-rd. BE&S. Dep. £2 2s.

**AUGUST 30.**

***Ealing BC.**—12 flats with site works at Greenford-rd. BS, Town Hall. Dep. £2.

**SEPTEMBER 15.**

***Brighouse BC.**—30 houses, Field-la. estate. H. A. Sneezum, Boro' E&S.

**NO DATE.**

***Altrincham BC.**—16 shops and 29 flats at Broomwood estate. BS, Town Hall. Dep. £5 5s.

***Stevenage UDC.**—70 dwellings in the area of the old town. C, Council Offices.

### PAINTING, MATERIALS, ETC.

**JULY 16.**

***†Birmingham City C.**—Installation of central heating and hot water services at Bradford-st. Police Station. City A. Dep. £2 2s. Tenders by August 13.

**JULY 23.**

***Thurrock UDC.**—External painting of 255 houses and 12 bungalows at Aveley. Estates Manager.

**AUGUST 4.**

***Essex CC.**—Cleaning and painting 16 small bridges. County S, Old Court, Arbour-la., Chelmsford.


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### MUNICIPAL AND CIVIL ENGINEERING WORKS, ETC.

**JULY 16.**

**†Hampshire CC.**—Construction of Christchurch by-pass, including clearing site, excavation, importing and compacting hard filling, building three pre-stressed concrete bridges, constructing two miles twin carriageway road in bituminous macadam and all ancillary works. County S.

**JULY 23.**

**East Riding of Yorkshire CC.**—Improvement of Liverpool-Leeds-Hull trunk road, A63, for 1,500 yd. from Newport canal bridge to Leatherdog-la., comprising widening existing carriageway to 44 ft. and construction of central islands, kerbing, drainage and accommodation works. County S. Dep. £2.

**Northamptonshire CC.**—Widening and reconstruction of London-Holyhead trunk road, A5, between Towcester and Weedon, for distance of 370 yd. at Brook Lodge, 2¾ miles south of Weedon, consisting principally of widening of carriageway to 30 ft., 19,000 cu. yd. excavation, drainage works, kerbing, footpaths, fencing and ancillary works. County S. Dep. £2.

**Warwickshire CC.**—Roundabout at Bubbenhall cross-roads, Ryton-on-Dunsmore, 4½ miles south-east of Coventry, at junction of A423 and A445, including 3,425 cu. yd. excavation and filling, 1,085 lin. yd. kerbing, 3,280 sq. yd. vibrated graded stone carriageway base with bitumen macadam surfacing, and fencing, SW drainage and footpaths. County S. Dep. £2.

**West Hartlepool CBC.**—Construction of substructure and superstructure of Owton Manor sewage pumping station in rc and brickwork. Boro' E. Dep. £5.

**JULY 25.**

**Aylesbury BC.**—470 lin. yd. r.c. and 930 lin. yd. broken stone and tarmacadam carriageway, including footpaths, soil and SW sewers, site strip and site works at Weedon-rd. extension housing estate. Boro' E&S. Dep. £2 2s.

**JULY 28.**

**East Suffolk CC.**—London-Gt. Yarmouth trunk road, A12, from Whight's Corner, Washbrook, for a distance of 700 yd. towards Ipswich. Work will consist principally of earthworks (15,000 cu. yd. excavation), realignment of existing carriageway and provision of new carriageway 24 ft. wide, with foundations, partly pitched and partly of unreinforced concrete, with coat of tarmacadam or base course asphalt, SW drainage, footpaths and ancillary works. County S. Dep. £10.

**Felling UDC.**—Two bridges carrying National Coal Board wagon-ways over Colegate-High Heworth-la. extension road on Leam-la. housing estate. Abutments and approach retaining walls in cut, built in brick-faced mass concrete and riveted steel through girder-type bridge decks. Chief Housing Officer. Dep. £2 2s.

**JULY 30.**

**Kerrier RDC.**—Excavation, for supplying, laying, jointing and maintenance of 2,650 yd. of 4 in. dia. spun-iron pipes with flexible joints between Lizard and Mullion water schemes and ancillary works. Herbert Lapworth & Ptnrs., engrs., 25, Victoria-st., SW1. Dep. £3.

**Oswestry BC.**—Drainage of Oak Drive and Llys areas, consisting of 700 lin. yd. 9 in. and 12 in. sewers and pumping station for three 4 in. sewage pumps. Boro' S. Dep. £2 2s.

**AUGUST 7.**

**Clitheroe BC.**—3,900 lin. yd. 15 in. dia. asbestos cement water main, 240 lin. yd. 12 in. CI main, construction of meeting well and pipework for chlorination plant at Lowcocks reservoir, Horrocksford. Ward, Ashcroft & Parkman, Corpn's. constg. engrs., 38, The Temple, Dale-st., Liverpool, 2. Dep. £5 5s.

**DECEMBER 3.**

**Sydney, NSW, Australia Metropolitan Water, Sewerage and Drainage Board.**—Design, manufacture, supply, delivery, erection and maintenance of crest gates for Warragamba Dam, New South Wales. Agent-General for New South Wales, 56-57, Strand, WC2. Dep. £5 5s.

**NO DATE.**

**Peterborough City C.**—Roads, sewers and water mains at Gunthorpe (West) housing estate, including 15,000 sq. yd. pitched stone and macadam or asphalt carriageways, kerbs and channels and paved footways thereto, 1,490 lin. yd. foul water sewers and 1,860 lin. yd. SW sewers in porous concrete pipes up to

24 in. dia., and 4,100 lin. yd. 4 in. and 6 in. dia. water mains and other works incidental to development of estate. City E. Dep. £2.

## GENERAL BUILDING WORK

### (LONDON)

**Camberwell.**—DWELLINGS.—The Building Development Com. has approved a scheme for the redevelopment of the site of Camberwell House mental hospital by the erection of two blocks of 21-storey maisonettes and other dwellings at varying heights, totalling 460 in all. The 12-acre site, which lies between Peckham-rd., Havil-st., Dalwood-st. and Southampton-way, is well wooded, and most of the trees and garden layout will be retained. Tenders will probably be invited early next year. The Boro' Architect is F. O. Hayes (A). W. V. Zinn and Associates are the consulting engineers for the scheme and the quantity surveyor is Oswald E. Parratt, FRICS, Adelaide House, London Bridge, EC4.

**Croydon.**—DEVELOPMENT SCHEME.—Housing Com. has under consideration a scheme for the development of the Shrublands area, adjoining Wickham-rd. and Oak-ave., Shirley, at present occupied by some 400 temporary bungalows, by the erection of 1,064 dwellings of various types. The architects for the scheme are Riches & Blythin (F), 77, Park-la., Croydon, in association with the Boro' Engr., C. E. Boast, OBE, MC, MICE, FRICS, MIMunE, MIWE.

**Finchley.**—SCHOOL EXTENSIONS.—Middlesex Education Com. recommends the enlargement and improvement of Woodhouse grammar school to three-form entry standard for 540 pupils. The scheme includes the erection of a hall with adjoining dining/music room, library, a three-storey block containing three classrooms, laboratories, etc., connecting with a single-storey metalwork room, and a detached gymnasium block. Estimated cost of building, site clearance and demolition works is £125,660, but it is proposed to defer the building of the metalwork room and gymnasium and the construction of a new playground and to invite tenders for the rest of the work. The County A is C. G. Stillman (F).

**Hendon.**—HOUSES AND GARAGES AND OFFICES.—Plans for 13 detached houses and garages at site adjoining Featherstone House, Wise-la., Mill Hill, NW7, submitted by D. Lennon on behalf of J. J. Lennon, and an application by the Metropolitan Water Board submitting plans for a house and office block at Finchley-rd., Golders Green, NW11, have been approved under the by-laws.

**Hendon.**—HOUSES, BUNGALOWS, FLATS AND GARAGES.—The proposals of the Boro' E & S., J. L. Pelham, MBE, AMInstCE, for the development of an area of 1.31 acres at rear of Goldsmith-ave. and Hyde-cres., by the provision of six houses, three old people's bungalows, a block of six flats and six garages have been approved by the Housing Com.

**Hendon.**—FLATS.—TP approval has been given to revised plans by Ivor Warner (A) for six flats to be erected at 967, Finchley-rd., NW11, for N. Jacobs, 33, Cranbourne-gdns., NW11.

**Hornchurch.**—SITE FOR FIRE STATION.—Subject to the approval of the Secretary of State, Essex CC has authorised the acquisition by agreement of a 2.275-acre site at eastern side of North-st., with eight cottages and a detached house, for the erection of a new fire station and houses or flats for firemen. The cottages may demand demolition, in which case the UDC will rehouse the occupants. It is also proposed that ¼ acre of the area shall be appropriated for a branch library.

**London, EC.**—PRESS HALL AND OFFICES.—Tenders have not yet been invited for the main works of the proposed "Daily Mirror" building at Holborn, although work on the excavations and foundations commenced in April. The building is planned to comprise a basement excavated over the site area of 50,000 sq. ft. to a depth of 50 ft., which will contain a press hall for the printing of "Daily Mirror" publications, ground and three lower floors to house printing and publication departments and a central block of offices rising 170 ft. above pavement level. The joint architects and engineers for the scheme are Sir Owen Williams & Ptnrs., 44, Park-rd., NW1, and Anderson, Forster & Wilcox (F/F), 9, Stone-bldgs., Lincoln's Inn, WC2. The quantity surveyors are Langdon & Every, Kingsway House, Kingsway, WC2.

**Potters Bar.**—SCHOOL.—Middlesex Education Com. recommends the erection of a two-form entry junior and a two-form entry infants' school in two separate blocks, with a school keeper's house at the Oakmere estate at an estimated cost of £109,500.

**Southgate.**—DWELLINGS.—A 2½-acre site at Arnos Grove railway sidings, backing on to houses in Palmers-rd., N11, is to be acquired by agreement by the BC as part of a scheme to build 116 dwellings in three-storey blocks on that and an adjoining site. The first phase will consist of 17 units. The Boro' E&S is J. W. T. Peat (F), Town Hall, Palmers Green, N13.

### (PROVINCIAL)

**Bath.**—Planning Com. proposes revised layout for new estate between Twerton and Whiteway housing estates to provide 172 flats, 313 houses, six shops and 70 garages.

**Belford.**—County EC has approved preliminary plans for proposed county sec. sch. £59,027 est. County A, County Hall, Newcastle upon Tyne.

**Coventry.**—HC has agreed, subject to Ministry approval, to authorise loan of £20,000 to enable YWCA to build new £51,500 hostel with 46 bedrooms in city.

**Coventry.**—Housing Com. proposes building 178 dwellings at Bell Green district centre and further 155, including block of 11-storey flats, in second phase of scheme.

**Derby.**—TC to erect total of 663 houses on new estates at cost of £851,678.

**Durham.**—CC obtaining tenders for erection of fire station at Spennymoor. County A: G. R. Clayton (F), South-st., Durham.

**Essex.**—MofE to be requested to approve inclusion of five-form entry instalment of new county tech. sch. in 1957/58 programme.

**Feilling, Co. Durham.**—UDC to obtain tenders for building 152 houses at Leam-la. estate. Plans by Chief Housing Officer, R. Morton, FRICS.

**Hereford.**—Tenders to be invited for 298 houses at Red Hill estate in accordance with layout plan approved by Housing Com. City S and Building and Maintenance Officer to prepare plans and specifications for these and for roads and sewers.—Detailed plans to be prepared for two shops and 22 maisonettes at site between Crown Inn and Causeway Mills at junction of Ross-rd.

**Hereford.**—Housing Com. approved lay-out plan for 10 detached and 34 semi-detached houses to be built for sale at Tupsley estate.—Tenders to be invited for houses to be erected for sale at Green Lanes estate.—Plans to be prepared for two blocks of three-storey flats at Whitecross estate.—Land fronting Whitecross-rd. and Kings Acre-rd. to be sold in plots for private development.

**Hereford.**—Outline application by H. Davis Rye on behalf of R. W. Powell & Son, for development of new residential estate at Church-rd. Conditionally approved by TP Com.

**Lancs.**—EC approved estimate of £43,718 for Stage 2 of extensions at Stretford technical college.—CC to acquire site at Blackberry Hall estate, Morecambe, for new county prim. sch. Approved plans:—Infant department as first stage of Worsley Peel Hall county sch. in timber construction, £56,360 est.; proposed Middleton Langley county sch., also in timber construction, £51,670 est. A for two latter schemes are Cruickshank & Seward (F), 96, Deansgate, Manchester.

**Leicester.**—Ex-Cell-O Corporation (Machine Tools), Ltd., plans to add 60,000 sq. ft. to Hastings-rd. works, trebling their size, at est. cost of £100,000, in next five years.

**Liverpool.**—32 houses to be built at Prenton Dell estate for City C. £45,676 est.

**Lytham St. Annes.**—TC to invite tenders shortly for proposed chapel and crematorium at Park cemetery.

**Manchester.**—Three-storey offices, store-rooms and workrooms proposed at north-east corner of Crown-st. and Melbourne-st., Hulme, for Box Packages, Ltd.

**Nottingham.**—New factory to employ 100 people is to be built at Clifton estate by lace-making firm of Frank Latham, to whom a 99-year lease has been granted by City C.

**Oldham.**—TC to negotiate contract for 100 houses at Alt estate.

**Ossett, Yorks.**—Layout plan for three blocks of four flats at Manor-rd. has been approved by TC.

**Redcar.**—Imperial Chemical Industries, Ltd., to spend £16 millions on further additions to their Wilton works, including the building of a third oil-cracking plant and extensions to plastics plant for manufacture of polythene. Work expected to be completed in 1959.

**Rochdale.**—TC approved scheme for 38 two-bedroomed houses and 24 bungalows at Kirkholt estate, and four bungalows and two shops at Clover Hall estate.—Ministry of Education approved in principle erection of new Technical College, £1,000,000 est.

**Rochdale.**—By-law and TP permission to M. J. W. Lees and Co. (Brewers), Ltd., for new hotel at Dicken Green, Queensway, and to Bamford Estates for four pairs s-d. houses at Marcliffe-drive.

**Runcorn.**—UDC approved revised lay-out for Grange Neighbourhood Unit providing for church, chapel, community centre, prim. sch., shops and 220 dwellings. Detailed plans to be prepared and tenders to be invited for concrete roads and sewers. E&S.

**Scarborough.**—TC proposes construction of new coach station in The Valley.

**Sedgley.**—UDC to prepare scheme for development of 17-acre site as industrial estate.

**Stockton-on-Tees.**—TC approved plans by Boro' A, T. C. Hartley (A), 28, The Square, Stockton, for 161 houses at new Hardwick estate, and tenders are being invited.

**Sunderland.**—By-law and TP permission to A. C. Reynolds for amended layout and erection of dwelling houses at Outer Ring-rd., Tunstall Red House estate for Wm. Leech (Builders), Ltd.; to Matkin and Hawkins (L/F), Barclays Bank Chbrs., Fawcett-st., for office block and caretaker's flat for J. W. Wilson and Sons at Saw Mills, Newcastle-rd.; to G. T. Brown and Son (F/A) for layout of 18 bungalows on land at east side of Red House-rd. for G. H. Plemper, Ltd., and to Boro' A (H. C. Bishop) for shops, flats and garages at Allendale-rd., Farringdon II estate, for HC.

**Sunderland.**—HC recommends that contract be allocated under negotiated prices scheme for 147 dwellings at Hylton Red House estate, £187,679 est.

**Sunderland.**—TC to let contract for site preparation works at Pennywell estate. Boro' E: T. Donkin, 27, Fawcett-st. TC approved plans by Boro' A for four shops and flats at Gerrard-rd. and six at Galashiels-rd., and tenders are being obtained.

**Tynemouth.**—TC to place contract for erection of 29 houses at Waterville-rd., North Shields, to plans by Boro' E, D. M. O'Herlihy, 16, Northumberland-sq., North Shields.

**Wallsend.**—Associated Lead Manufacturers, Ltd., Crescent-hse., Newcastle, are to carry out important factory additions at Stephenson-st.,

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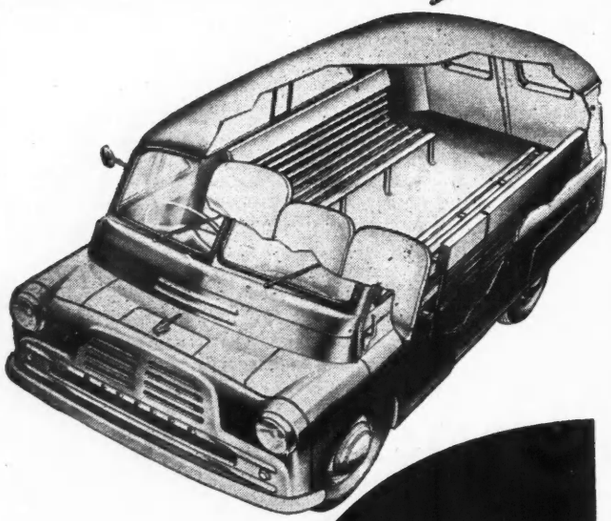

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and are preparing their own plans.—William Leech (Builders), Ltd., St. James-st., to erect six houses at Station-rd. and Mullen-rd.—Plans being prepared by Marshall & Tweedy (A), 36, Blackett-st., Newcastle, for factory extension at Hadrian-rd. for M. W. Swinburne (Brassfounders), Ltd.—National Coal Board, Ellison-bldgs., Newcastle, to extend coal-cleaning plant at Rising Sun colliery.—TC approved detailed plans by Mouchel & Ptnrs., Ellison-pl., Newcastle, for new offices at Potter-st. for Clelands (Successors), Ltd., Wallsend.

**Warrington.**—RDC received loan sanction £52,489 for 40 houses at Hollins Green site, Rixton.—E&S to investigate possibility of including bungalows for old-age pensioners in lay-out of Myddleton-la. housing estate, Winwick.

## TENDERS

* Denotes *accepted.*
† Denotes *provisionally accepted.*
‡ Denotes *recommended for acceptance.*
§ Denotes *accepted subject to modification.*
¶ Denotes *accepted by H.M. Government Departments.*

**Bath.**—Construction of roads and sewers on land between Tiverton and Whiteway estates for City C. *George Wimpey & Co., Ltd., Cardiff. £100,188.

**Bebington.**—112 dwellings, Mill Park estate, Eastham, for BC. Boro' E&S: T. H. McGrath, BEng, AMICE, "Brackenwood," Hr. Bebington: *Gregory Construction (North Western), Ltd., 37, Hope-st., Liverpool 1, £161,995.

**Brackley.**—Seven houses at Charlton for RDC. *Brackley Builders, Ltd. £11,415 (subject to MH&LG approval).

**Buxton.**—51 houses at Victoria Park estate No. 3, for BC. Boro' E: *H. Jones (Heaton Chapel), Ltd., 22, Hulme-rd., Heaton Chapel, Stockport, £76,066.

**Chelmsford.**—(a) 3 blocks of flats (33) New Writtle-st. and Baker-st. and (b) 4 pairs of houses, Lady-la. for BC. BES&Arch: Vincent J. Willis, MIMunE, FRSanI. ‡Johnson Crozier, Ltd., Bank-chmbrs., New-st., Chelmsford, (a) £57,098, (b) £11,946.

**Chester.**—22 houses at Saughall for RDC. ‡J. Roddy, £27,379.

**Colne.**—22 old people's bungalows at rear of Nos. 10-14, Keighley-rd., for Peter Birtwistle Trust. J. Taylor, AMICE, AMIMunE, Town Hall, Colne: *Nicholson & Sons, Little Moor housing estate, Clitheroe, £34,016 (subject to approval of MH&LG).

**Crewe.**—New sec. mod. girls' sch. at Gainsborough-st., for Cheshire CC: *Cooper Bros. & John Clayton, Ltd., Catherine-st., Macclesfield.

**Darlington.** — Engineering workshop at Haughton Engineering works for J. Dawson Fawcett, Ltd. *R. Blackett & Son, Ltd., 63 Bondgate, Darlington.

**Derby.**—1st instalment of Derby and District College of Art and Technology for CBC. *Gee, Walker & Slater, Ltd., £475,126.

**Dodworth.**—20 flats at Barnsley-rd., for RDC: *Bramall & Ogden, Gore Hill, Wath-on-Dearne, nr. Rotherham, £26,517.

**Essex.**—Proposed Nazeing county prim. sch. for EC. *J. Whiffen & Sons, Ltd., Epping.

**Gateshead.**—Extensions to factory and canteen at St. Aidan's-st. for Jackson The Tailor. *Shield Bros., Back Park-ter., Swalwell, Co. Durham.

**Glasgow.**—224 houses at Bishopbriggs. A: Norman Macfadzean (F), 137 West Regent-st., Glasgow, WC2. Principal contrs. *John Lawrence & Co. (Glasgow), Ltd., Blythswood, Glasgow.

**Hendon.**—Five shops and maisonettes and six garages at Glengall-rd., Broadfields-av., housing estate, for BC: *Norman Wright (Builders), Ltd., £22,688 (revised tender).—36 flats and 16 houses at Claremont-rd., NW2, for BC: *John Laing & Son, Ltd., £86,693 (revised tender).—Eight flats and one shop at Layfield-rd., NW4: ‡E. S. Moss, Ltd., £19,073.

**Hereford.**—44 three-bedroomed houses in Cornish unit construction at Red Hill estate for City C. *Selleck Nicholls & Co., Ltd. (negotiated tender, subject to MH&LG approval).

**Leeds.**—Five-storey extension at General Infirmary, for United Leeds Hospitals Board: *J. Gerrard & Sons, Ltd., Swinton, nr. Manchester.

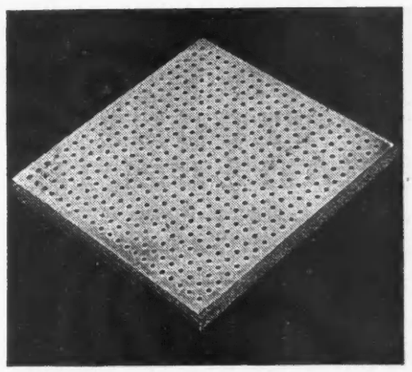
**Leigh.**—Erection of Atherton Green Hall sch., for Lancs CC: *T. Collier & Sons, Leigh, £42,511.

¶**London (Admiralty).**—Particulars of contracts over £1,000 in value:—*Lancs:* Resurfacing of roads, *Trinidad Lake Asphalt Co. (North Western), Ltd., India-bldgs., Water-st., Liverpool, 2. *Dorset:* Roads and hardstandings, *W. & J. Glossop, Ltd., Exhibition Way, Pinhoe Trading Estate, Exeter.

¶**London (Air Ministry).**—Contracts to value of £500 or over for week ended July 7:—

*Building work:* *M. J. Gleeson (Contrs.), Ltd., 816/822, Chesterfield-rd., Sheffield, 8; *A. Richmond & Sons, Ltd., West-st., Retford, Notts; *Scottish Tarmacadam & Asphalte Co., Ltd., 45-52, Bilbao-st., Glasgow, C5; *Farrans, Ltd., 39, Upper Brook-st., W1; *Wright & Kellett, Ltd., 14, Ashley-ter., Chester-le-Street, Co. Durham. *Resurfacing of runway* (2 *contracts*): **Western Trinidad Lake* Asphalt Co., Ltd., Asphalt House, St. Mary-st., Cardiff; *William Prestwich & Sons, Ltd., Dronfield, Sheffield, Yorks; *Thomas Ashley (Contrs.), Ltd., 314, Chester-rd., Hartford; *Amey's Asphalt Co., Ltd., Sutton Courtenay, Abingdon, Berks. *Civil engineering:* *Hadsphaltic Construction Co., Ltd., 1, Bex House, Minories, EC3; *Roads Reconstruction (1934) Surfacing Department, Stoneleigh House, Frome, Somerset; *Walter Lawrence & Son, Ltd., Ventnor House, London-st., Swaffham, Norfolk; *W. M. Priss & Son, Ltd., Willoughby-la., Tottenham, N17. *Heating boilers:* *Fraser & Fraser, Ltd., Bromley-by-Bow, E3. *Resurfacing of runway:* *Limmer & Trinidad Lake Asphalt Co., Ltd., Trinidad Lake House, 232/242, Vauxhall Bridge-rd., SW1.

**London (British Railways).**—Contracts placed by London Midland Region: *Bagguley & Barker, Ltd., Midland Bank-chmbrs., 65 Arkwright-st., Nottingham, renewal of drainage system, down goods line cess, between Irchester and Sharnbrook 60m. 1,700yds. To 61m. 317yds. —*T. E. Cundy & Sons, Ltd., 28 Belgrave-rd., Leicester, labour only, cleaning and painting of Leicester Central goods and passenger stations. —*Manchester Slate Co., 26 Hunter-st., Liverpool, 3, for "Corroplast Sheeting" and *Faulkner Greene & Co., Ltd., 16/18 Marshalsea-rd., SE1, for patent glazing repairs to roof No. 61 Crewe locomotive works.—*Renovators (Provincial), Ltd., 353 Chester-rd., Cornbrook, Manchester, 16, labour only, cleaning and painting Gorton locomotive and carriage works.—*A. E. Knights, "Woodthorpe," Rowtan Grange-rd., Chapel-en-le-Frith, nr. Stockport, permanent way maintenance work, Derby North district, 1956.—*Ratcliff & Ratcliff, Ltd., Bulmer-pl., Notting Hill Gate, W11, amenities for female staff, Cricklewood carriage sidings.

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**London (British Railways).**—Contracts placed by Eastern Region: *Samuel Butler & Co., Ltd., Albion Works, Stanningley, nr. Leeds, reconstruction of portion of superstructure of underline bridge No. 164 at 169m. 10c. between Wath (North) and Darfield.—*Dorman Long (Bridge & Engineering), Ltd., 38-40 Bute-st., Luton, Beds., reconstruction of superstructure of underline bridge No. 2 at 2m. 39c. over Moor End-la. between West Silkstone Junction and Wombwell Main West Junction.—*Supreme Fencing, Ltd., 10 St. Albans-rd., Watford, Herts., supply and erection of lineside fencing in King's Cross Engineer's district.

**London (British Railways).**—Contracts placed by Southern Region:—*Brockley-rd. bridge, Crofton Park,* reconstruction, *L. Fairclough, Ltd., NW5. *Maidstone East, Maidstone West, Burgess Hill, Hampden Park,* aerial surveys, *Meridian Airmaps, Ltd., Shoreham, Sussex. *West Worthing and Barnham,* aerial surveys, *BKS Air Survey, Ltd., W1. *Ashford (Kent)* district, resurfacing and surface dressing of roads, footpaths and platforms, *Johnson Brothers (Aylesford), Ltd., Tonbridge, Kent. *Purley district,* resurfacing and surface dressing of footpaths and platforms at various stations, *W. H. Gaze & Sons, Ltd., SW15. *Nine Elms staff accommodation,* heating installation, *Walter Cowen, Ltd., W14. *Mottingham station,* heating installation, *Walter Cowen, Ltd., W14. *Kemp Town,* additional premises, *Maycrete, Ltd., SW1. *East Croydon, Addiscombe-rd. bridge,* reconstruction, *The Demolition & Construction Co., Ltd., SW1. *Brighton station,* renovations, *Painting & Maintenance Contractors, Ltd., SW1. *Exmouth Junction motive power depot,* installation of water purification plant, *William E. Farrer, Ltd., Birmingham 28. *Cobbs Lake bridge, Wareham,* reconstruction, *Caffin & Co., Ltd., Rickmansworth, Herts. *Wallington station,* renovations, *J. R. Pearson (Birmingham), Ltd., Birmingham 19. *Wool,* resurfacing of goods yards, *W. & J. Glossop, Ltd., Exeter.

**London CC.**—Construction of blocks 1-5 of dwellings and other work at Aintree-st. site, Fulham, SW6. *Unit Construction Co., Ltd., £146,912.

¶**London (Metropolitan Police).**—Int. repairs and redecorations, Rotherhithe PS: *J. Hoare & Son, £1,561; int. redecorations, Notting Hill PS: *Druce & Co., £867; ext. redecorations, Barnes PS: *T. Adam & Son, £765; ext. painting and repairs, East-rd., Chadwell Heath: *A. Field, Ltd., £538; int. redecorations and minor repairs, West Dulwich PS: *R. J. Holland, Ltd., £530.

¶**London (MoW).**—Contracts placed for week ended June 30:—

*Cornwall:* Coinagehall-st., Helston, erection of telephone exchange, *Pearn Bros., Ltd., Radnor-st., Plymouth. *Hampshire:* Bramshill-hse., Hartley Wintney, nr. Basingstoke, alterations to coach house, *Pool & Sons (Hartley Wintney), Ltd., High-st., Hartley Wintney, nr. Basingstoke; Signals Research and Development Establishment, Christchurch, new recreation and education block and covered way, *Lander, Ltd., Tuckton, Bournemouth. *Lancashire:* Premium Bonds Organisation, Heyhouses-la., St. Annes, internal decorations, *C. Smith, 65, Holly-st., Blackburn. *Lincolnshire:* Elsham Wolds Airfield, internal and external painting, *Singleton Decorators, Ltd., 21, Silver-st., Doncaster, Yorks. *London:* Telephone Exchange, Ironmonger-row, Clerkenwell, EC1, internal decorations, *J. & B. Abbot (Contrs.), Ltd., Sherbourne-hse., Northolt-rd., Harrow, Middx. *Warwickshire:* Evesham-rd., Bidford-on-Avon, erection of (U.A.X.) telephone exchange, *Coleman and Tyas, Ltd., Bidford-on-Avon.

**London, SW.**—10-storey block of offices with 15-storey tower and basement garage for 135 cars at 68-114, Knightsbridge, SW1. A: Guy Morgan & Ptnrs., 12a, Eaton-sq., SW1. Constg. engrs.: Bylander & Waddell, 26, Old Burlington-st., W1. QS: Gardiner & Theobald, 49, Bedford-sq., WC1. Foundations and r.c. frame: *Taylor Woodrow Construction, Ltd., Southall, Middx.

¶**London (War Dept.).**—Works contracts placed in week ended June 30:—*Derbyshire:* Building, *Arthur Holmes & Sons, Ltd., Derby. *Devonshire:* Roofing, *N. Pratt & Sons, Ltd., Exeter, *Essex:* Sea walls, *A. Monk & Co., Ltd., London. *Gloucestershire:* Roadwork, *Costello & Kemple, Ltd., Cheltenham. *Hampshire:* Fencing, *S. W. Foster, Ltd., Radstock; Scrub clearance, *Gilliam & Co., Ltd., Purley; Painting and decorating, *S. Spencer & Co., Southampton. *Isle of Wight:* Roofing, *Rock

Asphalte Co., Ltd., London. *Kent*: Cleaning and repairs to stonework, *Szerelmey, Ltd., London. *Middlesex*: Roadwork, *Constable Hart & Co., Ltd., Richmond, Surrey. *Midlothian*: Painting, *Wm. Cowper & Son, Edinburgh. *Oxfordshire*: Building, *Lindum (Lincoln), Ltd., Bedford. *Shropshire*: Building, *Salem Engineering Co., Ltd., Holywell. *Surrey*: Building, *Francis Jackson Contractors, Ltd., Ickenham. *Wigtownshire*: Building, *T. Findlay & Sons, Ltd., Mauchline. *Wiltshire*: Building, *A. J. Dunning & Sons (Weyhill), Ltd., Weyhill; *Thos. King & Sons (Builders), Ltd., Andover; Roadwork, *Roads Reconstruction (1934), Ltd., Frome; Sports ground construction, *Surface Maintenance Services, Ltd., Cheltenham. *Yorkshire*: Sullage disposal scheme, *Jaram & Son, Scarborough.

**London, WC.**—Shop and office building with sub-basement garage, basement, shops and six upper floors at 1-23, Gray's Inn-rd. and corner of High Holborn, WC1, for Prince of Wales (Theatre) Properties, Ltd. A: Trehearne & Norman, Preston & Ptnrs. (F/A), 83, Kingsway, WC2. OS: Cyril Sweett & Ptnrs., 48, Bedford-row, WC1. Constg. engrs.: W. V. Zinn & Associates: *Token Construction Co., Ltd., 68, Mount-st., W1.

**Manchester.**—Conversion of former Finnegan's Departmental Store as showroom and offices at Deansgate, for Provincial Building Society, Ltd.: *Wm. Thorpe & Sons, Ltd., Chester-rd., Combrook, Manchester.—Extension to cotton waste warehouse at Honey-st. and Back Bank-st., Cheetham, for H. Bass & Co.: *Cutts & Mackenzie, Ltd., 96a, North-st., Manchester, 8.

**Middlesbrough.**—Office block, Marsh-rd., North Ormesby, for Lionweld, Ltd.: *Leslie & Co., Ltd., Woodland-rd., Darlington.

**Newcastle upon Tyne.**—46 houses at Kenton Park, Montague estate. City A: G. Kenyon (A), AMTPI: *Cussins, Ltd., The Drive, Gosforth.

**Newcastle upon Tyne.**—New directors' rooms, sanitary accommodation and alterations to entrances to St. James's Park football ground for Newcastle United Football Club, Ltd.: *George Wimpey & Co., Ltd., Orchard-hse., Newcastle.

**Newcastle upon Tyne.**—Office block (to be let to Ministry of National Insurance) at Market Place, for TC. Borough E: John Reid: *Tate & Holmes, Ltd., Benwell, Newcastle, £27,957.

**Oldham.**—96 houses at Alt estate, for TC: *James Hobson & Son, Ltd., Summer-st., Rochdale.

**Otley.**—32 houses at Weston-la. estate, for UDC: *Geo. Wimpey & Co., Ltd., London, £41,253 (revised quotation).

**Portsmouth.**—New shopfronts and internal alterations to premises for Jackson the Tailors. A: Stephenson & Gillis: *J. Curtis & Co., Leeds, £15,000.

**Salford.**—(a) 10 houses at Worcester-rd. and Cholmondeley-rd.; (b) 6 flats at Orient-rd.; (c) 6 flats at Light Oaks-rd.; (d) 18 flats at Victoria-rd. City E&S: *W. A. Costello, Sale. (a) £18,529; (b) £11,200; (c) £11,858; (d) £32,140.

**Sedgefield.**—57 houses at Ferryhill, Bishop Middleham and Trimdon Village, for RDC. Plans by Housing A: *Direct labour (commencement postponed for six months).

**South Shields.**—R-c frame for new Mortimer county sec. sch., for EC: *Carruthers & Son, Heugh-ter., South Shields, £57,486. Reinforcement of foundations: *Square Grip Reinforcement Co., Ltd., Gateshead, £15,915.

**Sunbury-on-Thames.**—Branch library and conveniences at Shepperton, for Middlesex CC. County A: G. C. Stillman (F), 1, Queen Anne's Gate-bldgs., SW1: *Anglo-Scottish Construction Co., Ltd., £10,308.

**Tiverton.**—16 houses at Shortlands Cullompton and six houses at Bradninch for RDC. *Andrews & Miller, Uffculme, £22,002 and £9,352.

**Walthamstow.**—Six flats in three-storey block at Markhouse-rd., E.17, for BC. Boro' A, E&S: F. G. Southgate (A) MiMunE, AMTPI. ‡J. Hyde & Co., 4, St. Mary's-rd., E.17, £11,700.

**West Ham.**—15 traditional-type flats at New Barn-st., Plaistow, for CBC. Boro' A: Thomas E. North (F), 95, The Grove, E.15. ‡Davies Bros., Buckhurst Hill, Essex (subject to MH&LG approval).


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# OFFICIAL ANNOUNCEMENTS

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## CONTRACTS

### GOVERNMENT OF IRAQ.

DEVELOPMENT BOARD AND MINISTRY OF DEVELOPMENT, BAGHDAD.

DIBIS POWER STATION.

CONTRACT No. 4.

CIVIL ENGINEERING WORKS.

The Development Board and the Ministry of Development of the Government of Iraq invite Tenders from experienced Civil Engineering Firms for the construction of the Civil Works for the Dibis Power Station, Iraq.

Tender Documents may be inspected on and after 2nd July, 1956, until 27th August, 1956, at the following addresses:

(1) Directorate General of Legal Affairs and Contracts, Ministry of Development, Development Board, Baghdad.
(2) Embassies of Iraq in Washington, London and Paris.
(3) Royal Legations of Iraq in Bonn, Brussels and Rome.
(4) Consul Honoraire of Iraq in Stockholm and Egyptian Legations in Berne and The Hague.
(5) At the office of the Consulting Engineers, Messrs. Electrobel-Traction and Electricité, 1, Place du Trone, Brussels.

Firms desiring to tender may obtain two sets of Contract Documents, each set consists of Volume 1, 2, 3A, 3B, 3C, 3D, and 4 for Tender, on and after 2nd July, 1956, until 27th August, 1956, from either the Directorate General of Legal Affairs and Contracts at the Development Board Offices, Baghdad; or Messrs. Electrobel-Traction and Electricité, 1, Place du Trone, Brussels, Belgium; or the above-mentioned Embassies and Legations on payment of 30 Iraqi Dinars or the equivalent of same. This charge will not be returned to the tenderers.

All Tender documents are to be submitted in English, and they must be accompanied by a deposit of ID. 15,000 (Fifteen Thousand Iraqi Dinars), which must be paid in cash to the Directorate General of Accounts of the Ministry of Development, and the receipt issued for such payment must be attached to the Tender Documents. Such cash deposit may be replaced by a Bank Guarantee from or through an approved bank in Iraq.

Tenders must be submitted in sealed envelopes marked on the outside "Dibis Power Station—Tender for Civil Engineering Works." They must be delivered at the Ministry of Development on or before 12 noon local time on 24th SEPTEMBER, 1956. If sent by post the Tenders shall be registered, but tenderers must assure themselves of delivery to the Board in the due time. A letter of capacity, method of procedure, articles of association, are to be submitted with the Tender at the same time.

Tenders not submitted within the time specified or not accompanied by a receipt of the deposit or Bank Guarantee shall be neglected.

The attention of tenderers is called to the fact that early completion of the project is desired, and therefore an early completion date will be considered an important factor in the selection of the successful tenderer.

The Development Board does not bind itself to accept the lowest or any Tender.

MINISTER OF DEVELOPMENT.

E.C.

### DURHAM COUNTY COUNCIL.

TENDERS invited:—

SEAHAM HARBOUR DENESIDE COUNTY SCHOOL—ADDITIONAL ACCOMMODATION.

Application for further details to County Architect, South-street, Durham, not later than 25th JULY, 1956.

J. K. HOPE,
Clerk of the County Council.

Shire Hall,
Durham.

### WEST SUSSEX COUNTY COUNCIL.

Contractors wishing to submit tenders for the undermentioned works are invited to apply for permission to tender; such applications, clearly stating for which scheme(s) they wish to tender, to be addressed to the County Architect, County Hall, Chichester, to reach him not later than first post on WEDNESDAY, 18th JULY, 1956.

IMPROVEMENTS TO SANITARY ACCOMMODATION AT:—

(a) Sutton and Bignor C.E. School, Nr. Petworth.
(b) Tillington C.E. School, Nr. Petworth.
(c) Ovingdean P. School, Nr. Chichester.
(d) Coolham British School, Nr. Horsham.

Plans and specifications will be issued on or about Tuesday, 7th August, 1956.

The County Council does not bind itself to accept the lowest or any tender, and the firm whose Tender is accepted must be prepared to enter into a Contract and Bond in a form to be prepared by me.

T. C. HAYWARD,
Clerk of the County Council.

County Hall,
Chichester,
28th June, 1956.

### GOVERNMENT OF IRAQ.

DEVELOPMENT BOARD AND MINISTRY OF DEVELOPMENT.

HOUSES OF PARLIAMENT—BAGHDAD.

The Development Board and the Ministry of Development invite TENDERS from suitable firms for the completion of the Houses of Parliament, of which the shell has been built. The contract involves masonry, brickwork, plaster, paint, marble work, joinery, etc.

Further particulars of these requirements and Tender Documents can be inspected during office hours at the Offices of the Directorate General of Legal Affairs and Contracts, Ministry of Development, Baghdad, or by application to the Iraqi Embassy in London, at 21, Queen's Gate, S.W.7, or at the Office of the Architect, Mr. J. Brian Cooper, F.R.I.B.A., at 38, Highfield-road, Edgbaston, Birmingham, 15, England.

These documents may be obtained from any of the addresses given above upon payment of five Iraqi Dinars in Baghdad or five pounds sterling in London.

Tenders must be delivered in a plain sealed envelope marked on the outside "Tender for Finishing Works, Houses of Parliament," and addressed to the Development Board (Directorate General of Legal Affairs and Contracts) on or before 12 noon, local time on MONDAY, 24th SEPTEMBER, 1956.

Enclosed in a separate envelope a letter of capacity, method of procedure and articles of association must be submitted at the same time. Tenders will only be accepted from firms who have had previous experience in works of a similar nature and magnitude.

Each Tender must be accompanied by a cash deposit or a Banker's Guarantee from an approved Bank in Iraq in a sum equivalent to not less than one-fifth of the Tender figure.

Any Tender not submitted within the time specified or not accompanied by a receipt of the deposit or a letter of guarantee and the Certificate of Membership of a Chamber of Commerce (if the tenderer resides in a Liwa in Iraq where a Chamber of Commerce exists) will be ignored.

The Board does not bind itself to accept the lowest or any Tender.

MINISTER OF DEVELOPMENT.

### STEVENAGE URBAN DISTRICT COUNCIL.

HOUSING CONTRACT.

INVITATION TO CONTRACTORS.

The Council are proposing to carry out a scheme for the CONSTRUCTION of approximately 70 TRADITIONAL-STYLE DWELLINGS in an area of the old town of STEVENAGE, and Contractors who would be interested in such a scheme are invited to communicate as soon as possible with the undersigned.

N. M. PRIESTLAND,
Clerk of the Council.

Council Offices,
Stevenage,
Herts.
6th July, 1956.

### CITY OF YORK.

TENDERS are invited for the ERECTION OF 40 FLATS in TWO BLOCKS at Navigation-road, York.

Bills of Quantities and Forms of Tender may be obtained from the undersigned on payment of three pounds (cheques to be made payable to YORK CORPORATION). Drawings may be inspected at the address shown below to where completed Forms of Tender are to be delivered not later than first post on 10th AUGUST, 1956.

E. FIRTH, F.R.I.B.A., A.M.T.P.I.
City Architect.

8, St. Leonard's-Place,
York
July, 1956.

### BOROUGH OF ACTON.

EDUCATION COMMITTEE.

ROTHSCHILD-ROAD SCHOOL.

TENDERS are invited for additions and alterations to this school comprising new classroom, hall in additional storey over ground floor and provision of kitchen and ancillary works.

Bills of Quantities and Form of Tender may be obtained from, and plans and General Conditions of Contract may be inspected at the Borough Engineer's department, Town Hall.

Tenders must be returned to the Borough Education Officer, Town Hall, Acton, W.3, by FRIDAY, 27th JULY, 1956.

The Council does not bind itself to accept the lowest or any tender and canvassing will disqualify.

### BOROUGH OF ALTRINCHAM.

BROOMWOOD ESTATE.

ERECTION OF 16 SHOPS AND 29 FLATS.

The Borough Council propose shortly to invite TENDERS for the CONSTRUCTION of 16 SHOPS and 29 FLATS in TWO- and THREE-STOREY DEVELOPMENT, on an ISLAND SITE on the BROOMWOOD ESTATE. Plans are now available for inspection, and the names of Building Contractors who have carried out works of a similar magnitude, and who wish to receive contract documents when available, are invited.

The plans can be inspected on application to the office of the Borough Surveyor at the Town Hall.

A deposit of Five Guineas, made payable to the Borough Treasurer, will be required when the contract documents are obtained. This deposit will be refunded after receipt of a bona-fide Tender and the return of all documents.

Tenders in the envelope provided are to be delivered to the Town Clerk, Town Hall, Altrincham, by a date to be notified.

The Council does not bind itself to accept the lowest or any Tender.

A. GLOSSOP,
Town Clerk.

Town Hall,
Altrincham.
6th July, 1956.

### CITY OF BIRMINGHAM.

TO HEATING CONTRACTORS.

The Watch Committee invite TENDERS for the INSTALLATION of CENTRAL HEATING and PRIMARY HOT-WATER SERVICES at BRADFORD-STREET POLICE STATION. Building work has started on this scheme.

Conditions of Contract (which include the usual Fair Wages and Conditions of Labour Clause), Special Conditions, Specification, Plans and Form of Tender will be forwarded on payment of £2 2s. at the office of A. G. Sheppard Fidler, City Architect, Civic Centre, Birmingham, 1, to whom all cheques should be made payable. Applications should be made by 16th July, 1956.

The deposit will be returned on receipt of a bona-fide Tender or on notification of inability to tender, together with the return of the documents, not later than three days before the date for receipt of Tenders.

Tenders, enclosed in the envelope provided for the purpose, must be sealed and delivered to the Town Clerk's Office (Room No. 46), Council House, Birmingham, 1, not later than 12 noon on 13th AUGUST, 1956.

Tenders received after that time will be rejected.

The Committee do not bind themselves to accept the lowest or any Tender.

J. F. GREGG,
Town Clerk.

The Council House,
Birmingham, 1.
4th July, 1956.

### BOROUGH OF HERTFORD.

BUILDING WORKS.

TENDERS are invited for the ADAPTATION of BUILDINGS as OFFICE ACCOMMODATION and for IMPROVEMENTS and REPAIRS to Corporation properties.

Documents may be obtained from the Borough Engineer and Surveyor, at the address below on receipt of a deposit of Three Guineas (made payable to the Borough Treasurer).

Tenders must be received by me not later than 9 a.m. 23rd JULY, 1956.

A. I. CLOUGH,
Town Clerk.

Council Offices,
Hertford,
Herts.

### BOROUGH OF EALING.

ERECTION OF FLATS—GREENFORD - ROAD.

The Corporation invite TENDERS for the ERECTION of ONE BLOCK of THREE-STOREY FLATS, comprising 12 FLATS with SITE WORKS on SITE in GREENFORD-ROAD, GREENFORD.

The Form of Tender, Specification and other particulars can be obtained from the Borough Surveyor, Town Hall, Ealing, W.5, upon a deposit of £2, which will be returned on receipt of a bona-fide Tender.

Tenders (in plain sealed envelopes endorsed "Tender for Flats—Greenford-road," but bearing no name or mark indicating the sender) must be delivered at my office not later than 9 a.m. on the 30th AUGUST, 1956.

The Corporation do not bind themselves to accept the lowest or any Tender.

E. J. COPE-BROWN,
Town Clerk.

Town Hall,
Ealing, W.5.

### BOROUGH OF BANBURY.

NEITHROP HOUSING SITE—THREE-STOREY FLATS

The Council invite tenders for the ERECTION of ONE THREE-STOREY BLOCK OF 12 2-BEDROOM FLATS at Orchard-way, Banbury. (Scheme No. 34).

Plans may be inspected and specifications, Bills of Quantities, Forms of Tender and full particulars may be obtained on written application to the Borough Engineer and Surveyor, Municipal Buildings, Marlborough-road, Banbury, and on payment of a deposit of £3 3s. 0d., which will be refunded on receipt of a bona-fide tender for the works and the return of all documents supplied.

Tenders must be delivered to the undersigned not later than 12 noon on TUESDAY, the 31st JULY, 1956, in a plain sealed envelope endorsed "Tender for Flats," which shall not bear any name or mark indicating the sender.

The Council do not bind themselves to accept the lowest or any tender.

F. G. E. BOYS,
Town Clerk.

Municipal Buildings,
Marlborough-road,
Banbury.
2nd July, 1956.

### HERTFORD RURAL DISTRICT COUNCIL.

SOUTHERN PARISHES BUILDING CONTRACT.

TENDERS are invited for the construction of the following:—

6 three-bedroom houses at Little Berkhamsted.
7 three-bedroom houses at Bayford.
4 three-bedroom houses at Brickendon.
4 "Rebecca" bungalows at Brickendon.

Some siteworks at Brickendon.

Experienced contractors who are desirous of tendering should apply to me for copies of the drawings and Specifications not later than Saturday, the 21st July, 1956, enclosing a deposit cheque for £3, made payable to the Council. This sum will be refunded upon the receipt of a bona-fide tender not subsequently withdrawn and the return of all documents.

A Bond for the due performance of the contract will be required.

Sealed tenders in plain envelopes, endorsed "Southern Parishes Building Contract" to be delivered to me by SATURDAY the 18th AUGUST, 1956.

The lowest or any tender will not necessarily be accepted.

E. A. WILLIAMS,
Clerk of the Council.

Wallfields,
Pegs-lane,
Hertford.
6th July, 1956.

## COUNTY COUNCIL OF ESSEX.

HIGHWAYS AND BRIDGES DEPARTMENT.

CLEANING AND PAINTING SMALL BRIDGES.

TENDERS are invited for cleaning and painting sixteen small bridges situated throughout the County.

The bridges are divided into two groups in the north and south of the County respectively, and firms may tender for one or both groups. The work is to be completed by the 20th October, 1956.

Copies of the tender documents may be obtained on application to the County Surveyor, Old Court, Arbour-lane, Chelmsford. Sealed tenders, enclosed in the envelope to be provided, must be delivered to him not later than 4th AUGUST, 1956.

H. J. BERRY,
County Surveyor.

Old Court,
Arbour-lane,
Chelmsford.

## DEVON COUNTY COUNCIL.

ERECTION OF COUNTY SECONDARY SCHOOLS AT ASHBURTON AND IVYBRIDGE.

Building Contractors wishing to be considered for inclusion in selected list of firms invited to tender for these projects should send name to County Architect, 97, Heavitree-road, Exeter (from whom further particulars obtainable), by 27th JULY, 1956.

## CHADDERTON URBAN DISTRICT COUNCIL.

BROADWAY HOUSING SITE.

ERECTION OF 120 DWELLINGS.

The above Council invite TENDERS for the ERECTION of 22 THREE-BEDROOM HOUSES, 74 TWO-BEDROOM HOUSES and 24 BUNGALOWS.

Specifications, Bills of Quantities, Forms of Tender, etc., may be obtained from the Engineer and Surveyor, Town Hall, Chadderton, Lancs., after Monday, 9th July, 1956, on payment of a deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender.

Plans and Conditions of Contract can be inspected and any further information obtained at the office of the Engineer and Surveyor.

Tenders in plain sealed envelopes, endorsed "Tender for Houses," must be received by the undersigned by 3rd AUGUST, 1956.

L. STOTT,
Clerk of the Council.

Town Hall,
Chadderton,
Lancs.
June, 1956.

## COUNTY BOROUGH OF HUDDERSFIELD.

EDUCATION DEPARTMENT

COMMERCIAL-STREET (COMPULSORY PURCHASE ORDER) DEMOLITION OF PROPERTY.

TENDERS are invited from competent Demolition Contractors for the demolition of Dwelling-houses and other Buildings in the Commercial-street area of Huddersfield.

The area comprises some 50 houses, which are more clearly defined on a plan which can, together with specification and form of tender, be obtained from the Estate and Property Manager's Offices, Railway-street, on a deposit of £2 2s. 0d. Work must be completed to the satisfaction of the Estate and Property Manager by 31st March, 1957. All materials to become the property of the Contractor and removed from the site.

Tenders endorsed "Demolition Contract" should reach the undersigned not later than 23rd JULY, 1956.

HARRY BANN,
Town Clerk.

## COUNTY BOROUGH OF BARROW-IN-FURNESS

DEMOLITION OF BUILDINGS

BARROW-IN-FURNESS (HINDPOOL FLATS)

CLEARANCE ORDER, 1938.

TENDERS are invited for the demolition of the buildings contained in the Second Section of the Hindpool Flats, Barrow-in-Furness; and the purchase of the materials. The buildings include 86 flats and comprise approximately one third of a large block of stone built flats.

A plan showing the buildings in respect of which tenders are invited may be inspected at the Borough Surveyor's Office and persons who desire additional information should apply to the Borough Surveyor.

Tenders marked "Hindpool Flats" should reach the undersigned by the first post on 23rd JULY, 1956.

LAWRENCE ALLEN,
Town Clerk.

Town Hall,
Barrow-in-Furness.

## DURHAM COUNTY COUNCIL.

TENDERS invited:—
Billingham—ERECTION of NEW CHILD WELFARE CENTRE.

Application for further details to County Architect, South-street, Durham, not later than 18th JULY, 1956.

J. K. HOPE,
Clerk of the County Council.

Shire Hall,
Durham.

Second Section.

## CUCKFIELD URBAN DISTRICT COUNCIL.

HOUSING.

EIGHT DWELLINGS—CHALONER-ROAD, LINDFIELD.

The Cuckfield Urban District Council invite TENDERS for the CONSTRUCTION of EIGHT DWELLINGS (SIX HOUSES AND TWO BUNGALOWS), ROAD & SITEWORKS at CHALONER-ROAD, LINDFIELD.

Forms of Tender and other relevant documents may be obtained from the Surveyor to the Council on payment of a deposit of Two Guineas, which will be returned on the submission of a bona-fide Tender and/or the return of the documents.

Tenders, in the sealed envelope to be supplied, which must bear no name or mark indicating the sender, must be returned to the undersigned by noon on 26th JULY, 1956.

The Council do not bind themselves to accept the lowest or any Tender.

J. A. EVANS,
Clerk of the Council.

Oaklands,
Haywards Heath.
5th July, 1956.

## THURROCK URBAN DISTRICT COUNCIL.

EXTERNAL PAINTING OF COUNCIL HOUSES.

TENDERS are invited for the EXTERNAL PAINTING of 255 HOUSES and 12 BUNGALOWS on the Council's housing estate at AVELEY. Form of Tender and copies of specifications and conditions may be obtained upon application to the Estates Manager, Council Offices, Whitehall-lane, Grays. Sealed Tenders must be delivered to the undersigned in the envelope provided (which must bear no mark or indication as to the name of the sender) not later than noon on MONDAY, the 23rd JULY, 1956.

The Council do not bind themselves to accept the lowest or any Tender.

(Signed) A. E. POOLE,
Clerk of the Council.

Council Offices,
Whitehall-lane,
Grays, Essex.

## COUNTY COUNCIL OF ESSEX.

BRETTS FARM, ROMFORD-ROAD, AVELEY.

ERECTION OF NEW MILKING PARLOUR AND COVERED YARD.

The Smallholdings Committee invite Tenders from Building Contractors with suitable organisation for the ERECTION of a new MILKING PARLOUR and COVERED YARD at BRETTS FARM, Romford-road, Aveley.

Bills of Quantities and Form of Tender may be obtained from the County Land Agent and Valuer, 69, Duke-street, Chelmsford. Plans may also be inspected at his office or at the farm.

No tender will be considered unless contained in the envelope provided and delivered to the undersigned not later than 12 noon on WEDNESDAY, 1st AUGUST, 1956.

The County Council does not bind itself to accept the lowest or any tender.

CHRISTIAN BERRIDGE,
Clerk of the County Council.

County Hall,
Chelmsford.
July, 1956.

## BOROUGH OF HORNSEY.

CAMPSBOURNE REDEVELOPMENT AREA, STAGE III.

20 FLATS IN THREE THREE- AND FOUR-STOREY BLOCKS AND GARAGES, Etc.

TENDERS are invited for the ERECTION of THREE BLOCKS of FLATS in THREE AND FOUR STOREYS (Total 20 Flats) in MYDDELTON-ROAD, HORNSEY, N.8.

Particulars and Form of Tender from Borough Engineer and Surveyor, Town Hall, Hornsey, N.8, at whose office drawings may be examined.

Applications to tender to be received by noon, Monday, 23rd July.

Tenders to be submitted before noon, MONDAY, 17th SEPTEMBER.

H. BEDALE,
Town Clerk.

## BOROUGH OF BROMLEY.

ERECTION OF FLATS.

TENDERS are invited for the ERECTION OF 60 FLATS at Martins-road, Bromley.

Drawings and Conditions of Contract (R.I.B.A. form specially adapted for the use of local authorities) may be inspected upon application to the Borough Engineer, Municipal Offices, Bromley.

Contractors wishing to tender should apply for Bills of Quantities and form of tender not later than Friday, 27th July, to the Borough Engineer enclosing a deposit of £2 2s. 0d., which will be refunded on receipt of a bona-fide tender not subsequently withdrawn.

When applying for Bills of Quantities contractors should also submit details of similar schemes undertaken by them, together with the names of two independent persons to whom reference can be made concerning such schemes.

Tenders must be submitted, in the envelopes provided, to the under-signed not later than the date indicated on the form of tender.

The Council does not bind itself to accept the lowest or any tender.

LIONEL KAYE,
Town Clerk.

Municipal Offices,
Bromley, Kent.
2nd July, 1956.

## CITY OF WORCESTER EDUCATION COMMITTEE.

BRICKFIELDS PRIMARY SCHOOL.

TENDERS are invited from suitably qualified contractors for the erection of the second instalment of the BRICKFIELDS PRIMARY SCHOOL, WORCESTER, comprising nine classrooms, assembly hall, dining room.

Applications for Bills of Quantities and Form of Tender must be sent to Messrs. Watkins and Decker, Quantity Surveyors, 13, Gray's Inn-square, London, W.C.1, not later than 3rd August, 1956, together with a deposit of £2 2s. 0d. (cheques to be made payable to the Corporation of Worcester) which will be returned on receipt of a bona-fide tender.

Plans and conditions of Contract may be viewed at the offices of the Architects, Messrs. Willis, Llewellyn Smith and Waters at 33, Foregate-street, Worcester, and 103, Old Brompton-road, London, S.W.7.

Sealed tenders, endorsed "Brickfields Primary School" must be delivered to the undersigned by post not later than 3rd SEPTEMBER, 1956.

No tender will be admitted except in the envelope provided, which must not bear any name indicating the sender.

BERTRAM WEBSTER,
Town Clerk.

Guildhall,
Worcester.

## NORTHAMPTONSHIRE COUNTY COUNCIL.

Contractors wishing to tender for the ERECTION of either of the following SCHOOLS, to be started in the last quarter of 1956, are asked to notify the County Architect, County Hall, Northampton, by TUESDAY, 24th JULY. Construction in both cases will be in load bearing brickwork and reinforced concrete.

Barton Seagrave Infants' School (single-storey).

Wollaston Secondary Modern School (two-storey).

From the names received the committee concerned will select firms to whom particulars will be sent in due course.

J. ALAN TURNER,
Clerk of the County Council.

County Hall,
Northampton.
29th June, 1956.

## BOROUGH OF BRIGHOUSE.

HOUSING AND PROPERTY COMMITTEE.

ERECTION OF 30 TWO-BEDROOM HOUSES, FIELD-LANE ESTATE, CONTRACT 62.

TENDERS are invited for the above Contract and are based on Plans and Specification obtainable on application to the Borough Engineer and Surveyor, H. A. Sneezum, A.M.I.C.E., Commercial-street, Brighouse.

The Council does not bind itself to accept the lowest or any Tender.

Tenders to be delivered to my office in a plain sealed envelope, endorsed "30 Houses, Field-lane Site, Contract 62," not later than the first post on 15th SEPTEMBER next.

J. R. LIDDLE,
Town Clerk.

Town Hall,
Brighouse.

## DEVON COUNTY COUNCIL.

BUILDING TENDERS—ROLLE COLLEGE, EXMOUTH.

Applications are invited from Building Contractors wishing to tender for the ERECTION of NEW BUILDINGS at ROLLE COLLEGE, Exmouth. A list of tenderers will be selected from those who apply.—Applications should be sent to the Architects appointed by the Council, Messrs. Louis de Soissons, Peacock, Hodges, Robertson & Fraser, 12, Baring-crescent, Exeter, not later than 23rd JULY, 1956.

## BOROUGH OF GUILDFORD.

ERECTION OF—
32 PAIRS TWO-BEDROOM HOUSES, PARK BARN.
20 PAIRS THREE-BEDROOM HOUSES, PARK BARN.
FOUR BLOCKS OF EIGHT FLATS, PARK BARN.
11 PAIRS THREE-BEDROOM HOUSES, OLD FARM-ROAD AND WOODLANDS-ROAD.

TENDERS are invited for the ERECTION of the ABOVE DWELLINGS. Conditions of Contract and drawings may be inspected, and Bills of Quantities and Form of Tender may be obtained on application in writing to the Borough Engineer and Surveyor, Municipal Offices, High-street, Guildford.

Applications must be accompanied by a deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender, not subsequently withdrawn, and the return of all documents.

Sealed Tenders, endorsed "Houses and Flats," to be delivered in the envelope provided to the undersigned not later than FRIDAY, 24th AUGUST, 1956.

The Corporation does not hold itself to accept the lowest or any Tender.

HERBERT C. WELLER,
Town Clerk.

Municipal Offices,
High-street,
Guildford.
July, 1956.

## BOROUGH OF REIGATE.

42 FLATS, GREEN-LANE ESTATE, REDHILL.

TENDERS invited for the above, based upon Bills of Quantities for sub-structure and site works subject to re-measurement as work proceeds, and upon lump sum for the superstructure of the dwellings based upon Specification and Detailed Plans. The scheme comprises ONE THREE-STOREY BLOCK of 24 ONE-BEDROOM FLATS, and ONE of 18 TWO-BEDROOM FLATS, together with OUT-BUILDINGS and SITE WORKS.

Form of Tender, Plans and Specifications and Bills of Quantities obtainable from the Borough Engineer and Surveyor, Town Hall, Reigate, on payment of a deposit of £3 3s., refunded upon the submission of a bona-fide Tender and the return of all plans and documents.

Sealed Tenders in the envelope provided and endorsed "Tender for 42 Flats, Green-lane Estate, Redhill," must be returned to the undersigned not later than noon on 10th AUGUST, 1956.

HEBER DAVIES,
Town Clerk.

Town Hall,
Reigate.
9th July, 1956.

## SURREY COUNTY COUNCIL.

TENDERS FOR PROPOSED POLICE HOUSES AT DORKING.

The work consists of the ERECTION of ONE PAIR of INSPECTORS' HOUSES and ONE CONSTABLE'S HOUSE at SPITAL HEATH, REIGATE-ROAD, DORKING.

Contractors wishing to tender should apply to the County Architect, County Hall, Kingston-upon-Thames, by 19th JULY, 1956.

## BOROUGH OF LUTON.

TENDERS invited for SUPPLY and ERECTION of MILD STEEL BALUSTRADING to STAIRCASES and BALCONIES, RUNFOLD and VAUXHALL PARK ESTATES.

Documents from Borough Architect, Town Hall, Luton, on payment of £2 2s. deposit, returnable after receipt of a bona-fide Tender not subsequently withdrawn. Cheques payable "Luton Corporation." Tenders to Town Clerk, Town Hall, Luton, by noon on 8th AUGUST, 1956.

## COUNTY BOROUGH OF IPSWICH.

EIGHT HOUSES, STRATFORD-ROAD, CASTLE HILL.

36 HOUSES, CHANTRY ESTATE 2B.

TENDERS are invited for the ERECTION of 36 HOUSES of various types in pairs and blocks, together with OUT-BUILDINGS, on their CHANTRY ESTATE 2B; and for EIGHT HOUSES in pairs at STRATFORD-ROAD, CASTLE HILL ESTATE; in two separate contracts.

Contractors wishing to tender should send their names to the Borough Engineer and Surveyor, 19, Tower-street, Ipswich, not later than 26th July, 1956, together with a deposit cheque for Three Guineas for each Contract, which is returnable on receipt of bona-fide Tender. Bills of Quantities will be forwarded on 2nd August, and the closing date for Tenders will be 12 noon on THURSDAY, 30th AUGUST.

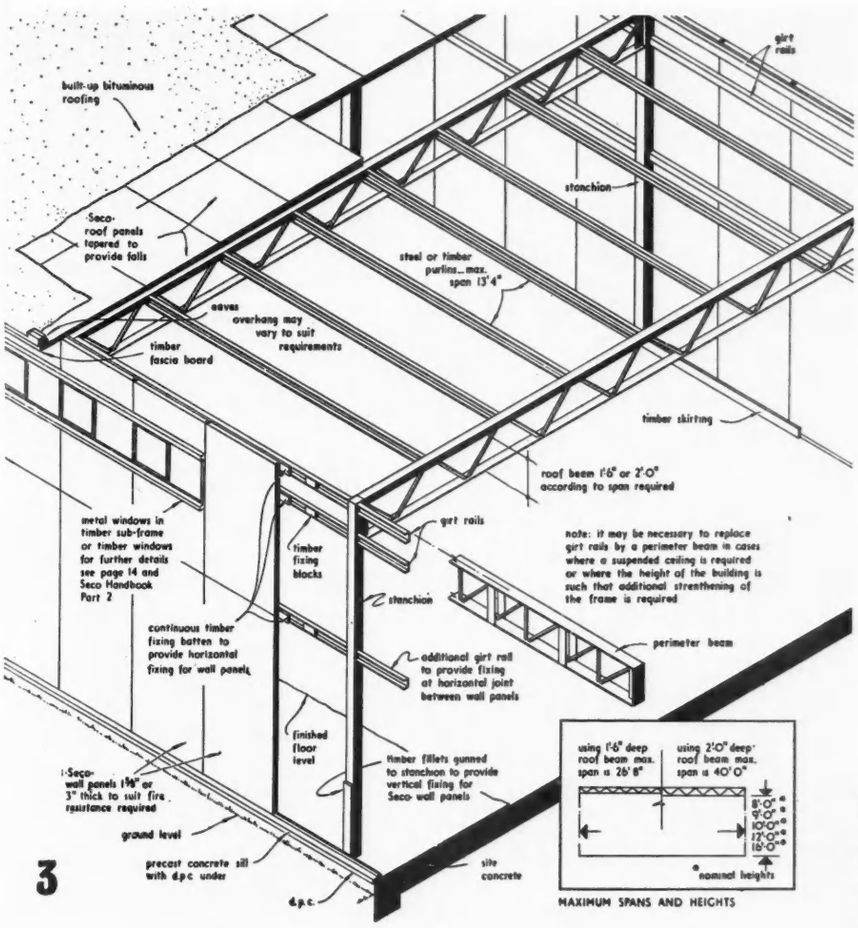
A guarantee bond will be required from the successful contractor.

J. C. NELSON,
Town Clerk.

Town Hall,
Ipswich.
26th June, 1956.

# SECO SINGLE STOREY STEEL-FRAMED CONSTRUCTION...

*is one of four integrated systems in the SECO Mark VIII form of construction*

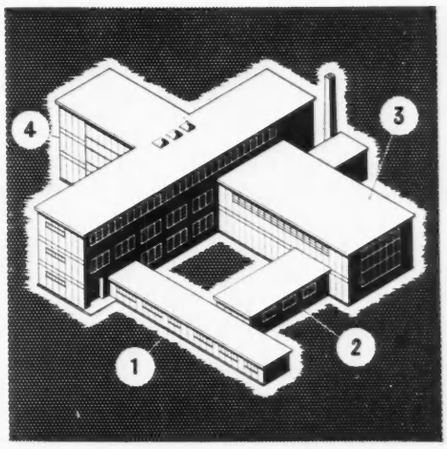



**1** SINGLE STOREY CELLULAR CONSTRUCTION

**2** SINGLES TOREY PLYWOOD-FRAMED CONSTRUCTION

**3** SINGLE STOREY STEEL-FRAMED CONSTRUCTION

**4** MULTI-STOREY STEEL-FRAMED CONSTRUCTION




The SECO Mark VIII System of Construction has been designed to provide permanent buildings to suit a variety of needs, such as Schools, Industrial and Commercial buildings.

The four systems of construction can be used individually, or they can be integrated in one building. This allows the most economical construction to be used that is consistent with the function of each section of the building.

Based on a 4″ module, the four systems of construction conform to a standard 40″ planning grid. Other planning grids can be used, provided they are multiples of the 4″ module.

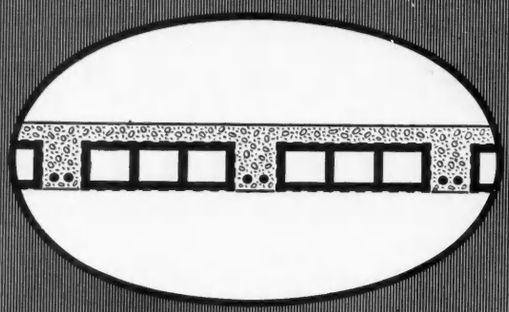
The SECO panels which form the walls and roofs in SECO construction provide excellent thermal insulation, resulting in considerable fuel economy. The panels also possess outstanding fire protection properties.

The system illustrated above is suitable for buildings such as gymnasia, assembly halls, etc. where spans of up to 40′ 0″ and clear heights of up to 16′ 0″ are required. A steel frame is employed at maximum bay centres of 13′ 4″.

*Full details are contained in our booklet—SECO Mark VIII Construction, Part I, a copy of which will gladly be supplied upon request.*

**SECO CONSTRUCTION** *is particularly suitable for schools, factories, offices, canteens*

SECO LIMITED · 11 UPPER BROOK STREET · LONDON · W1 · *Telephone* MAYFAIR 9080



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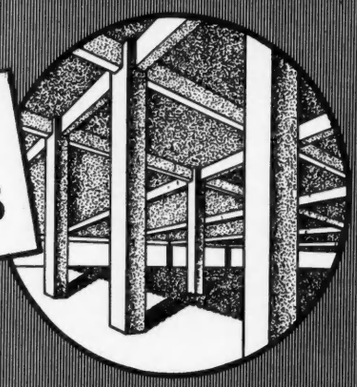
SPECIFIED BY LEADING ARCHITECTS AND ENGINEERS SINCE 1905

Consult us, also, for design and construction of COMPLETE R.C. FRAMES



THE KLEINE COMPANY LTD., 9-13 GEORGE STREET, MANCHESTER SQ., LONDON, W.1 : WELBECK 9131
and at BIRMINGHAM, MANCHESTER, NEWCASTLE, BRISTOL, SOUTHAMPTON and GLASGOW

# PYROK

## *in City development*

Mercury House
Theobalds Road, W.C.1

*Pyrok work involved was anti-condensation and anti-corrosion treatment to steel decking of basement ceiling.*

*Architects:*
*Gordon Jeeves, 61 Catherine Place, Westminster, S.W.1.*

*Main Contractors:*
*Sir Robert McAlpine & Sons Ltd.*

*Pyrok Licensees:*
*C. & T. (Pyrok Contracts) Ltd., London, N.W.2.*

Pyrok has special properties of fire protection which comply with the high standards required by the Model By-Laws.

Both material and process, Pyrok embodies the modern technique of applying Vermiculite to building structures. Pyrok is particularly suitable as a material in urban building schemes as an insulating and acoustic surfacing and as a decorative and protective treatment against condensation and fire.

Pyrok is applied by continuous spray, setting rapidly and adhering strongly to structural steelwork, concrete, stone, brick and fibreboard. Its uses amount to a new trade in the building industry, officially recognised by the N.F.B.T.O.

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acoustical
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**PYROK LIMITED** 401-404 Montrose Avenue Trading Estate Slough Bucks *tel: Slough 24061-5 'grams: Pyrokad Slough*
LICENSEES U.K. *C. & T. (Pyrok Contracts) Ltd. London N.W.2. Bristol 4, and Newcastle-on-Tyne 1*
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*AP 280-35*

*in the spring a painter's fancy...*

makes Paintcrete the only choice for giving winter-worn exteriors new, lasting beauty and protection. Paintcrete always looks good—always stays good. No flaking nor peeling—and it can be washed or scrubbed back to its original freshness. It is the 100% quality waterproof cement paint for 100% satisfaction; whether applied to renderings, brickwork, roughcast, concrete or cemented surfaces. And with coverage costs as low as 3d. per sq. yard for a 2-coat application, here's a . . .

*...bouquet for*

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AP 75/251

**PLEASE NOTE THE LATEST DATE FOR ACCEPTING ADVERTISEMENTS IN THIS SECTION IS 12 o'clock NOON, TUESDAY, PRIOR TO ISSUE**

## PUBLIC APPOINTMENTS

### CIVIL ENGINEER

(FIELD ENGINEER, JORDAN).

Applications are invited by the United Nations Relief and Works Agency for Palestine Refugees for a post as a Civil Engineer for work in Jordan. Duties will involve supervision and direction of large scale building and other engineering activities of a public works type. Applicants should have adequate supervisory experience in planning, administration and carrying out of large construction programmes. Experience in under-developed countries would be an asset. Tact, initiative, broad outlook, organisational talents essential. **Language:** English. **Qualifications:** Degree in Civil Engineering, Building Technology or Structural Engineering, or equivalent membership of a recognised professional institution. **Duration:** one year's contract extendable thereafter at Agency's discretion. **Salary:** £2,150 to 2,600 per annum tax free plus generous allowances. For further information and application forms write to Ministry of Labour and National Service, 26/28, King-street, London, S.W.1, quoting A.12/JOR/248/UNR.

**ADMIRALTY.** Vacancies exist for LEADING ARCHITECTURAL and CIVIL ENGINEERING ASSISTANTS in the Works Department Drawing Offices at the following Admiralty establishments:— Pinner (Middlesex), Chatham, Portsmouth, Fareham (Hants), Devonport and Londonderry (N. Ireland). Further vacancies in other areas of the United Kingdom are expected to arise shortly.

Applicants must be competent draughtsmen and experienced designers in some of the following types of building and civil engineering works; structural steelwork; reinforced concrete; dock and harbour works; residential, office, store and factory buildings; oil fuel schemes; airfield construction, rail, road, water and heating services, etc.

Posts are temporary and non-pensionable but have long term possibilities. Opportunities for transfer to the established staff occur from time to time. Inclusive salary range £756 to £898 per annum. Entry above minimum for candidates with exceptional qualifications. The rates quoted are London rates which are slightly lower in the provinces. Candidates, who must be British subjects, are invited to apply, giving age, details of experience, etc., to Civil Engineer-in-Chief, ADMIRALTY, Chamberlain-way, Pinner, Middlesex. Interview will be arranged locally.

### HAYES AND HARLINGTON URBAN DISTRICT COUNCIL.

Applications are invited for:—

(a) ARCHITECTURAL ASSISTANTS (PERMANENT) (two vacancies) within Grade A.P.T. II, i.e., £595—£675 per annum. (b) SENIOR ARCHITECTURAL ASSISTANT (TEMPORARY) within Grade A.P.T. IV, i.e., £710—£885 per annum, plus London "Weighting" in each instance, 21-25 years £20 per annum, 26 years and over £30 per annum. Candidates for (a) must have passed the R.I.B.A. Inter. Exam., good experience of housing work with local authority. Housing accommodation will be made available for one of these two appointments if necessary. (b) must be a Registered Architect, have good general experience in design and construction in relation to municipal housing and other works and capable of supervising large building contracts. Housing accommodation will be made available if necessary. Five-day week. Further particulars and form of application obtainable from the undersigned, which when completed, must be returned as soon as possible.

GEORGE HOOPER,
Clerk and Solicitor.

Town Hall,
Hayes,
Middlesex.

### BEDFORDSHIRE COUNTY COUNCIL.

ASSISTANT QUANTITY SURVEYORS.

Applications are invited for the post of Assistant Quantity Surveyor, Grade IV (£710-£885). Commencing salary will be at any point within the scale dependent upon candidates' qualifications and experience. Preference given to members of the R.I.C.S. Candidates must have had experience in taking-off quantities for all types of buildings, measurement of work on site, valuations for interim certificates, etc. Application forms from County Architect, Shire Hall, Bedford, to be returned by 27th JULY, 1956.

### COUNTY BOROUGH OF SOUTHEND-ON-SEA.

SENIOR ASSISTANT QUANTITY SURVEYOR IN BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for this appointment. Salary Grade A.P.T. VI (£880—£40—£1,080).

Candidates must be Corporate Members of the Royal Institute of Chartered Surveyors (Quantities) and have had a wide experience in large-scale Local Authority Housing Schools and other Municipal projects. Medical examination.

Applications stating age, qualifications and experience, with the names of two referees, should be submitted to the Borough Architect, 30, Alexandra-street, Southend-on-Sea, by FRIDAY, 20th JULY, 1956.

Canvassing will disqualify. Relationship with any member or officer of the Council must be disclosed.

ARCHIBALD GLEN,
Town Clerk.

### BOROUGH OF HESTON AND ISLEWORTH.

APPOINTMENT OF (A) SENIOR ARCHITECTURAL ASSISTANT, A.P.T. IV, AND (B) ARCHITECTURAL ASSISTANT, A.P.T. II.

Applications are invited for the following permanent appointments in the Borough Engineer and Surveyor's Department:—

APPOINTMENT (A)—Salary in accordance with A.P.T. Grade IV (£710 x £35—£885, plus London "weighting," per annum).

Applicants must have had good experience in architectural design and building work under construction. Other things being equal, preference will be given to applicants who have passed the examination for the Associateship R.I.B.A., or hold a University degree or Diploma in Architecture accepted by that Institute.

APPOINTMENT (B)—Salary in accordance with A.P.T. Grade II (£595 x £20—£675, plus London "weighting," per annum).

Applicants should have passed the R.I.B.A. Intermediate Examination and have had one year's office experience.

Applications, on forms to be obtained from the Borough Engineer and Surveyor, 88, Lampton Road, Hounslow, Middlesex, must be returned to him not later than NOON on 23rd JULY, 1956, appropriately endorsed.

D. MATHIESON,
Town Clerk.

Town Hall,
Hounslow.

### AYCLIFFE DEVELOPMENT CORPORATION.

CHIEF ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

(i) ARCHITECTURAL ASSISTANT, A.P.T. IV (£710 x £35—£885).

(ii) QUANTITY SURVEYING ASSISTANT, A.P.T. IV (£710 x £35—£885).

Applicants for (i) should be associate members of the R.I.B.A. and have had at least three years' varied experience.

Applicants for (ii) should be up to final standard of the R.I.C.S. with experience in the preparation of bills of quantities, estimates and the settlement of final accounts.

Appointments subject to N.J.C. conditions, superannuation and medical examination.

Housing accommodation provided if necessary.

Applications stating age, qualifications and experience, together with names of two referees, to arrive not later than 21st JULY, 1956.

A. W. WILLIAMS,
General Manager.

Newton Aycliffe,
Near Darlington,
Co. Durham.

### METROPOLITAN BOROUGH OF BERMONDSEY.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

CHIEF ARCHITECTURAL ASSISTANT.

Applications are invited from persons under 45 years of age for the position of Chief Architectural Assistant, to take charge of the Architectural Section of the Borough Engineer and Surveyor's Department.

Salary will be in accordance with Scale A of the Joint Negotiating Committee for Chief Officers, commencing at an incremental point according to experience.

Candidates must be A.R.I.B.A., with considerable office experience, particularly of multi-storey housing projects. They must be capable of organising and supervising the work of the Architectural Section and should have a contemporary approach to architecture.

Applications, on the appropriate form obtainable from the undersigned, must be returned not later than 18th JULY, 1956.

S. E. FREEMAN,
Town Clerk.

Municipal Offices,
Spa-road,
S.E.16.

### COUNTY BOROUGH OF WEST HAM.

BOROUGH ARCHITECT AND PLANNING OFFICER'S DEPARTMENT.

Applications are invited from suitably qualified and experienced Architects and Planners for the following permanent appointments:—

ARCHITECTS—
SENIOR GROUP ARCHITECT: Grade VII, £975 x £45-£1,200.
GROUP ARCHITECT: Grade VI, £880 x £40-£1,080.
DEPUTY GROUP ARCHITECTS (Four Posts): Grade V, £795 x £35-£970.
ASSISTANT ARCHITECT: Grade IV, £710 x £35-£885.
ARCHITECTURAL ASSISTANTS (Two Posts): Grades I/II, £530 x £20-£675.

PLANNERS—
SENIOR ASSISTANT PLANNING OFFICER: Grade VI, £880 x £40-£1,080.
ASSISTANT PLANNING OFFICER: Grade V, £795 x £35-£970.
PLANNING ASSISTANT: Grade IV, £710 x £35-£885.
PLANNING ASSISTANT: Grades I/II, £530 x £20-£675.

London allowance in addition.

The County Borough has an extensive reconstruction and slum clearance programme, and offers varied and interesting work.

Application forms and details from the Borough Architect and Planning Officer, Thomas E. North, O.B.E., F.R.I.B.A., Dist.T.P., M.T.P.I., 70, West Ham-lane, Stratford, E.15 (returnable by 23rd JULY, 1956).

### LONDON COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

Vacancies exist for ARCHITECT/PLANNERS (salaries up to £817). Tasks include three-dimensional planning within London's eight major Comprehensive Development Areas (including Stepney/Poplar, the South Bank, and Elephant and Castle) and other Redevelopment Areas.

The work includes the preparation of comprehensive layouts covering all the important areas of new public and private development throughout the County, and covers the whole field of planning technique.

Particulars and application form from Architect (AR/EK/ATP/3), County Hall, S.E.1. (907)

### COUNTY BOROUGH OF SUNDERLAND.

DEPUTY BOROUGH ARCHITECT.

Applications are invited from Members of the Royal Institute of British Architects for the above appointment.

Forms of application, particulars of duties and conditions of appointment can be obtained from the undersigned, Town Hall, Sunderland, by whom all applications must be received not later than 3rd AUGUST, 1956. Canvassing will disqualify.

G. S. McINTIRE,
Town Clerk.

### LONDON COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

Vacancies exist in the Quantities Division for quantity surveyors and assistants for preparation of approximate estimates; valuations for payments on account, and site measuring and adjustments of final accounts. Also JUNIOR ASSISTANTS required for working-up.

Commencing salaries up to £987 according to experience and qualifications.

Particulars and application form obtainable from the Architect (AR/EK/Q/3), County Hall, S.E.1. (988)

### URBAN DISTRICT COUNCIL OF CORBY.

JUNIOR ARCHITECTURAL ASSISTANT, GRADE A.P.T. I, (£530-£610).

Applications are invited for the above appointment in the Architectural Section of the Engineer and Surveyor's Department.

Applicants must have passed the R.I.B.A. Intermediate Examination, or its equivalent at one of the recognised schools of architecture, and preference will be given to those who have had practical office experience in housing and general architecture.

The provisions of the Local Government Superannuation Acts 1937/53 will apply to this appointment.

Housing accommodation will be made available to the successful candidate if married.

Forms of application may be obtained from the undersigned, to whom they should be returned not later than the first post on SATURDAY, 14th JULY, 1956. Testimonials will be required only from applicants selected for interview.

G. B. BLACKALL,
Clerk of the Council.

Council Offices,
Corby, Northants.
26th June, 1956.

### COUNTY BOROUGH OF WEST HAM.

BOROUGH ARCHITECT AND PLANNING OFFICER'S DEPARTMENT.

Applications are invited for the following permanent appointments:—

SENIOR ASSISTANT, Contracts Records, Grade III, £640 x £25-£765.
ASSISTANT, Contracts Records, Grade II, £595 x £20-£675.

London allowance in addition.

Applicants should have experience in an architect's or builder's office, and be capable of preparing and recording statistics relating to building contracts.

Application forms and details from the Borough Architect and Planning Officer, Thomas E. North, O.B.E., F.R.I.B.A., Dist.T.P., M.T.P.I., 70, West Ham-lane, Stratford, E.15 (returnable by 23rd JULY, 1956).

### BOROUGH OF BEXLEY.

ASSISTANT ARCHITECT.

Salary according to qualifications and experience—Special Grade (£690-£840 p.a.) or Grade A.P.T. IV (£710-£885 p.a.), plus London Weighting.

Candidates should have passed the final examination of the R.I.B.A. and have had experience in housing, school and other building projects.

Forms of application, with conditions of appointment, obtainable from Borough Engineer, West Lodge, Broadway, Bexleyheath, to whom completed applications must be returned by TUESDAY, 24th JULY, 1956.

Canvassing will disqualify.

ARTHUR GOLDFINCH,
Town Clerk.

### RURAL DISTRICT COUNCIL OF DONCASTER.

SURVEYOR'S DEPARTMENT.

TECHNICAL ASSISTANT—BUILDING ACCOUNTS.

Applications are invited for the appointment of TECHNICAL ASSISTANT in the Surveyor's Department of the Doncaster Rural District Council, at a salary in accordance with the Clerical Division (Grade I-II, according to experience) of the National Scheme of Conditions of Service (i.e., Grade I, £520—£580; Grade II, £580—£640).

Applicants must possess a sound knowledge of builder's materials and costing methods, and some experience in "working up" site measurements and checking of final valuations will be an advantage.

The appointment will be subject to one month's notice on either side, and to the Local Government Superannuation Act, 1937, and the successful applicant will be required to pass a medical examination.

Applications, stating age, present appointment and salary, qualifications and details of experience, accompanied by one testimonial and the names of two persons to whom reference may be made, should be received by the undersigned not later than MONDAY, 23rd JULY, 1956.

B. MELDRUM,
Clerk to the Council.

Council Offices,
Nether Hall,
Doncaster.
4th July, 1956.

### CITY OF LEICESTER EDUCATION COMMITTEE. COLLEGE OF ART

Principal: K. Holmes, O.B.E., A.R.C.A.

STUDIO MASTER IN THE SCHOOL OF ARCHITECTURE.

Applications are invited from graduates or holders of a diploma of a recognised School of Architecture for a post of Studio Master in the School of Architecture. Salary in accordance with the Lecturers' Grade of the Burnham Technical Scale.

Applications (no forms) giving details of age, training, qualifications and experience, and the names of three referees, should be sent to the Registrar, College of Art, Leicester, within 14 days of the appearance of this advertisement.

ELFED THOMAS,
Director of Education.

### ROYAL BURGH OF ARBROATH.

HOUSING ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of JUNIOR ARCHITECTURAL ASSISTANT in the above Department at a salary of £550-£595 (A.P.T. Grade I).

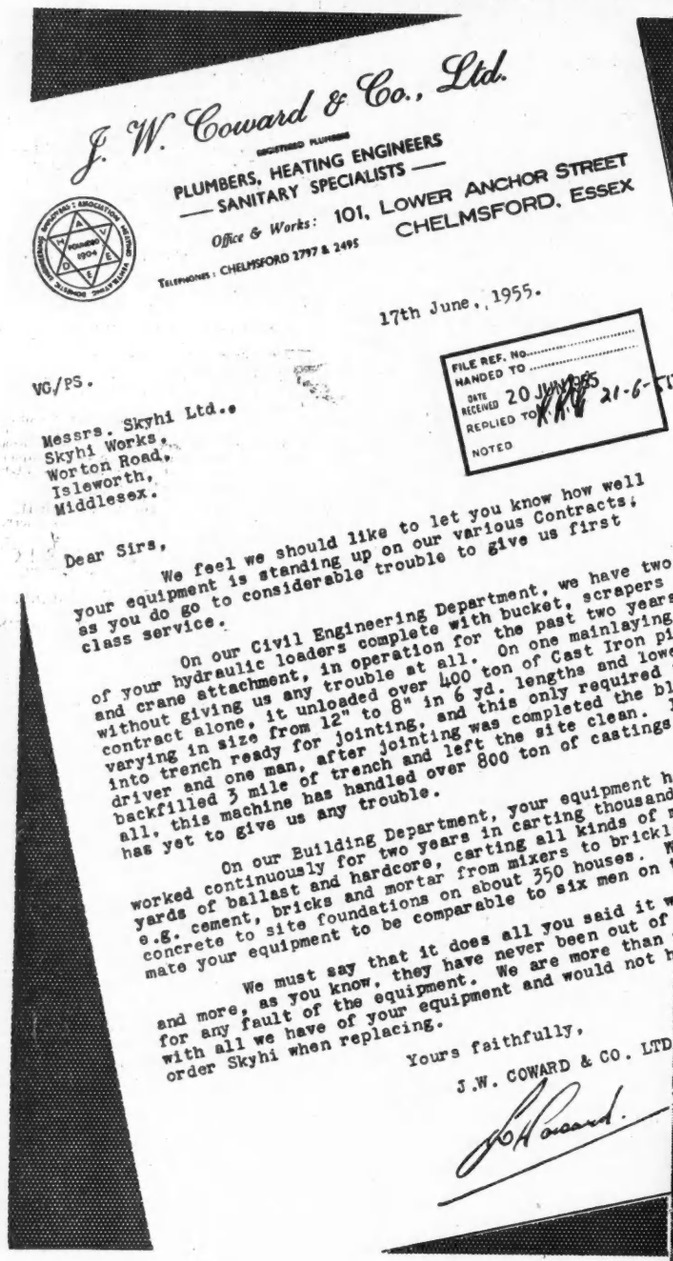
Applicants should have had experience in Municipal Housing Work, and all applications, together with two copies of recent testimonials, should be lodged with W. R. Samson, A.R.I.B.A., Housing Architect, 32, Hill-street, Arbroath, not later than SATURDAY, 28th JULY, 1956.

WILLIAM D. SMITH,
Town Clerk.

Town House,
Arbroath,
Angus.
July, 1956.

L

# SKYHI LOADER DOES SIX MEN'S WORK



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PLUMBERS, HEATING ENGINEERS
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CHELMSFORD, ESSEX
TELEPHONES: CHELMSFORD 2797 & 2495

17th June, 1955.

FILE REF. NO. .....
HANDED TO .....
DATE RECEIVED 20 JUN 1955
REPLIED TO KW 21-6-55
NOTED

VG/PS.

Messrs. Skyhi Ltd.,
Skyhi Works,
Worton Road,
Isleworth,
Middlesex.

Dear Sirs,

We feel we should like to let you know how well your equipment is standing up on our various Contracts; as you do go to considerable trouble to give us first class service.

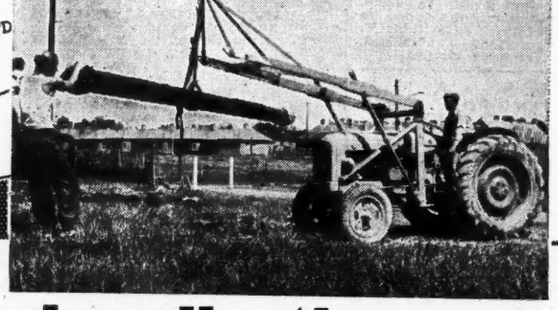
On our Civil Engineering Department, we have two of your hydraulic loaders complete with bucket, scrapers and crane attachment, in operation for the past two years. without giving us any trouble at all. On one mainlaying contract alone, it unloaded over 400 ton of Cast Iron pipes varying in size from 12" to 8" in 6 yd. lengths and lowered into trench ready for jointing, and this only required the driver and one man, after jointing was completed the blade backfilled 3 mile of trench and left the site clean. In all, this machine has handled over 800 ton of castings and has yet to give us any trouble.

On our Building Department, your equipment has worked continuously for two years in carting thousands of yards of ballast and hardcore, carting all kinds of material e.g. cement, bricks and mortar from mixers to bricklayers, concrete to site foundations on about 350 houses. We estimate your equipment to be comparable to six men on the site.

We must say that it does all you said it would and more, as you know, they have never been out of action for any fault of the equipment. We are more than satisfied with all we have of your equipment and would not hesitate to order Skyhi when replacing.

Yours faithfully,
J.W. COWARD & CO. LTD.

## *It pays for itself in a month!*



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FIT A SKYHI HYDRAULIC LOADER to your tractor and save time and money.

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## HITCHIN URBAN DISTRICT COUNCIL.

BUILDING INSPECTOR AND TOWN PLANNING ASSISTANT.

Applications are invited for this appointment in the Surveyor's Department at a salary on Grade A.P.T. II (£595/£675). The commencing salary within the grade will be fixed according to qualifications and experience.

Applicants must hold the Building Inspector's Certificate of the Institute of Municipal Engineers or its equivalent.

The appointment is superannuable and subject to the National Scheme of Conditions of Service.

The Council will be prepared, if necessary, to provide the successful applicant with housing accommodation. Casual user allowance on the National Scale will be paid for a car not exceeding 10 h.p.

Applications stating age, qualifications, experience and the names of two referees must be received by the undersigned in envelopes marked "Building Inspector and Town Planning Assistant," by SATURDAY, 28th JULY, 1956.

Canvassing will disqualify.

W. WILSON,
Clerk of the Council.

Council Offices,
Brand-street,
Hitchin,
Herts.

## COUNTY BOROUGH OF CROYDON.

ARCHITECTURAL STAFF.

Applications are invited for appointments to the established staff as—

ARCHITECTURAL ASSISTANTS to work under Section Leaders. Commencing salary according to experience, and qualifications, progressing by annual increments of up to £45 p.a. to a maximum of £870 per annum.

If necessary the Corporation will endeavour to assist with living accommodation for which a full economic rent will be charged.

For particulars and application form write to, the Borough Engineer, Town Hall, Croydon. Closing date 28th JULY, 1956.

## COUNTY BOROUGH OF WIGAN.

BOROUGH ENGINEER'S OFFICE.

Applications are invited for the following posts on the staff of the Borough Engineer and Surveyor:—

(a) SENIOR ARCHITECTURAL ASSISTANT, A.P.T. IV (£710-£885).
(b) ARCHITECTURAL ASSISTANT, A.P.T. III (£640-£765).
(c) ARCHITECTURAL ASSISTANT, A.P.T. II (£595-£675).
(d) ARCHITECTURAL ASSISTANT, A.P.T. I (£530-£610).
(e) PLANNING ASSISTANT, A.P.T. II (£595-£675).

Applicants for the posts (a) and (b) must be appropriately qualified, and experience in a Municipal Engineer's Office would be deemed an advantage.

In connection with post (e), consideration will be given to the provision of suitable housing accommodation to the successful applicant.

Applications for the above posts, on forms to be obtained from the Borough Engineer and Surveyor, Municipal Buildings, Hewlett-street, Wigan, and accompanied by copies of two recent testimonials, should be returned to him not later than 25th JULY, 1956.

ALLAN ROYLE,
Town Clerk.

Municipal Buildings,
Wigan.

## STAFFORDSHIRE COUNTY COUNCIL.

EDUCATION ARCHITECT'S DEPARTMENT.

ARCHITECTS.

Applications are invited for the following:—

ASSISTANT ARCHITECTS, Grade A.P.T. V (£795—£970 p.a.).

ASSISTANT ARCHITECTS, Grade A.P.T. IV (£710—£885 p.a.).

Applicants must be Associate R.I.B.A., and have had at least five years' experience, including the period spent on theoretical training. For Grade V appointment two years' practical experience is also required.

ARCHITECTURAL ASSISTANTS, Grade A.P.T. II (£595—£675 p.a.). Applicants must have passed the R.I.B.A. Intermediate Examination or its equivalent at a recognised School of Architecture and have worked in an Architect's office for a minimum period of three years.

ARCHITECTURAL ASSISTANTS, Grade A.P.T. I (£530—£610 p.a.). Applicants must have passed the R.I.B.A. Intermediate Examination or its equivalent, and have worked for a minimum period of one year in an Architect's Office.

Forms of application from the County Education Architect, Green Hall, Lichfield-road, Stafford, to be completed and returned by the 24th JULY, 1956.

T. H. EVANS,
Clerk of the County Council.

## BRITISH RAILWAYS—EASTERN REGION.

MODERNISATION PLAN.

There are Vacancies in the office of the Architect, Eastern Region, King's Cross Station for:—

ASSISTANT ARCHITECTS. Salary range £872-£910.

Post No. 1. Applicants should be qualified, skilled and enterprising in design, with a sound knowledge of modern building practice and ability in administration.

Post No. 2. Applicants should preferably be qualified with a sound knowledge of modern building practice and considerable experience of conversion and alteration work carried out by contract.

ASSISTANT ARCHITECT. Salary range £770-£835.

Post No. 3. Applicants should preferably be qualified, good designers, with a sound knowledge of modern building practice. Applicants who are not qualified should have passed Inter R.I.B.A., and should have had considerable practical experience in contemporary work.

ARCHITECTURAL ASSISTANTS.

Post No. 4. Applicants should be of intermediate R.I.B.A. standard, salary range being dependent upon age, experience and qualifications. Salary required should be stated in application.

Five-day week; concessionary rail travel and permanency after probationary period.—Apply in writing, quoting Post Number applied for, giving full particulars as to age, education, training and experience, previous positions held and any other special qualifications possessed to Chief Civil Engineer, British Railways, Eastern Region, King's Cross Station, London, N.1.

## SURREY COUNTY COUNCIL.

Applications invited for following appointments:—

(1) SENIOR ASSISTANT QUANTITY SURVEYOR, Grade VI, £880 x £40 to £1,080 p.a., plus £30 London allowance. Must be Chartered Quantity Surveyor with experience of quantity surveying on major contracts, including adjustment of final accounts and directing staff.
(2) ASSISTANT QUANTITY SURVEYOR, Grade IV-VI, minimum £710, maximum £1,080, plus £30 L.A., p.a.
(3) ASSISTANT HEATING ENGINEER, Grade IV-VI, salary as (2) above.
(4) ASSISTANT STRUCTURAL ENGINEER, Grade III, £640 x £25—£765 p.a., plus L.A. Experience in steelwork or reinforced concrete.
(5) ARCHITECTURAL ASSISTANT, Grade I-III, minimum £530, maximum £765 p.a., plus L.A.
(6) HEATING ENGINEERING ASSISTANT, Grade I-III, salary as (5) above.
(7) ELECTRICAL ENGINEERING ASSISTANT, Grade I-III, salary as (5) above.

For (2), (3), (5), (6) and (7) salary range of appointment and commencing salary will depend on experience and qualifications.

Full details, present salary and three copy testimonials to County Architect, County Hall, Kingston, as soon as possible.

## RURAL DISTRICT COUNCIL OF GLOUCESTER.

CLERK OF WORKS.

Applications are invited for the post of Clerk of Works in connection with the Council's housing schemes.

Applicants must have had practical experience as Clerk of Works on housing schemes (houses, roads and sewers), including setting-out, levelling and preparation of progress reports, etc.

The appointment will be a temporary one for a period not exceeding two years and will be determinable by one month's notice on either side.

The salary will be £12 per week, and the successful applicant will be required to provide and maintain a motor car for use in the performance of his duties, for which a travelling allowance will be paid.

Applications, stating age, qualifications, experience and present employment, together with copies of two recent testimonials, to be delivered to the undersigned not later than the 28th JULY, 1956.

W. J. KNIGHT.
Clerk to the Council.

29, Brunswick-square,
Gloucester.
3rd July, 1956.

## WORKS SUPERVISORS

required by NYASALAND GOVERNMENT P.W.D. on contract for tour of 30 to 42 months in first instance. Salary £1,100 a year. Gratuity at rate of 10 per cent. of total salary drawn. Outfit allowance £30. Free passages. Liberal leave on full salary. Candidates, preferably single, must have served an apprenticeship as a carpenter and had at least five to seven years' subsequent experience in the building trade, including experience as foreman.—Write to the CROWN AGENTS, 4, Millbank, London, S.W.1. State age, name in block letters, full qualifications and experience, and quote M2B/41807/BH.

## GOVERNMENT OF NORTHERN IRELAND.

CIVIL SERVICE COMMISSION.

ASSISTANT BUILDING SURVEYOR-CLASS II.

Applications are invited for the permanent and pensionable post of Assistant Building Surveyor, Class II, in the Works Directorate, Ministry of Finance.

The salary scale inclusive of Pay Supplement is £766-£1,160. Starting salary depends on age and experience. Prospects of promotion when vacancies in superior grades occur.

Candidates must be A.R.I.C.S. (Building) or Architects and have considerable experience in the preparation for and supervision of alterations, repairs and general maintenance of large and small buildings.

Preference will be given to candidates who served in H.M. Forces in the 1914-18 or 1939-45 wars, provided the Commissioners are satisfied that such candidates are, or within a reasonable time will be, able to discharge the duties efficiently.

Application forms may be obtained from the Secretary, Civil Service Commission, Stormont, Belfast, and must be returned duly completed, with copies of two recent testimonials, so as to reach him not later than 15th AUGUST, 1956.

## COUNTY BOROUGH OF BOLTON.

APPOINTMENT OF BUILDING INSPECTOR.

Applications are invited for the appointment of a BUILDING INSPECTOR in the Department of the Borough Engineer and Surveyor, at a salary in accordance with Grade A.P.T. II of the National Scale of Salaries (£595-£675).

Applicants must hold the Building Inspectors' Certificate of the Institution of Municipal Engineers or the Building Surveyors' Certificate of the Royal Institute of British Architects, together with the Higher National Certificate in Building, and should be fully experienced in the examination of plans in connection with Building Bye-laws, Public Health Acts, and general building regulations, the supervision of building operations and the treatment of dangerous structures.

The appointment will be subject to the provisions of the Local Government Superannuation Acts, and to the passing of a medical examination.

Application forms may be obtained from the undersigned to whom they should be returned not later than TUESDAY, 31st JULY, 1956.

PHILIP S. RENNISON,
Town Clerk

Town Hall,
Bolton

## LONDON COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

ARCHITECTS & BUILDING SURVEYORS required in connection with a large programme of Modernisation of Schools and Housing with a wide range of improvements and adaptations of all types of building. Salaries up to £817 for Assistants and up to £987 for Grade IIIs. with commencing rate according to qualifications and experience.

Further particulars and application form, returnable by 2nd AUGUST, 1956, from The Architect (AR/EK/MOD/3), County Hall, S.E.1. (1358)

## HATFIELD RURAL DISTRICT COUNCIL.

ARCHITECT'S DEPARTMENT.

APPOINTMENT OF JUNIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of JUNIOR ARCHITECTURAL ASSISTANT (A.P.T. Grade I. £530 x £20-£610) in the Department of the Architect to the Council.

Application, giving age, details of training, experience, etc., and copies of two recent testimonials or the names of two referees to be sent to Mr. J. H. Parker, A.R.I.B.A., 82, Great North-road, Hatfield, not later than 27th JULY, 1956.

E. F. CULL,
Clerk to the Council.

5th July, 1956.

## CITY AND COUNTY OF BRISTOL.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for permanent staff appointment of SENIOR ASSISTANT ARCHITECT, Grade A.P.T. VI (£880 x £40—£1,080 p.a.).

Candidates must be Associate Members of the R.I.B.A., and have had considerable experience in design, construction, and contract administration, preferably with a large Local Authority.

Housing accommodation available, if necessary, at an economic rent.

Further particulars and application form obtainable from me, to whom forms must be returned by 23rd JULY.

J. NELSON MEREDITH, F.R.I.B.A.,
City Architect.

The Council House,
College Green,
Bristol. 1.
6th July, 1956.

## THE Metropolitan Borough of HAMPSTEAD

Require JUNIOR ARCHITECTURAL ASSISTANT. Salary Higher General Division (at age 18-£300 rising to a maximum of £640 plus London Weighting). Medical examination. No housing provided.—Applications, giving three referees, to the Town Clerk, Town Hall, Haverstock Hill, N.W.3. Closing date 3rd AUGUST, 1956.

## STAVELEY URBAN DISTRICT COUNCIL.

CLERK OF WORKS.

ENGINEER AND SURVEYOR'S DEPARTMENT.

The above Council invite applications for the appointment of Clerk of Works for housing schemes with traditional and new traditional type houses, road and sewer works. The commencing salary will be £590 per annum, rising to £610 on 1st April.

The appointment is superannuable and the tenancy of a suitable Council house will be offered to the successful applicant if required.

Applications giving particulars of age, experience, present appointment and the names of two referees should be sent so as to reach the undersigned not later than MONDAY, 23rd JULY.

HAMILTON H. STANLEY,
Clerk of the Council.

Council Offices,
Lowgates,
Staveley,
Near Chesterfield.
4th July, 1956.

## CITY OF WAKEFIELD.

CITY ENGINEER'S DEPARTMENT.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the above superannuable post on Grade A.P.T. I (£530 x £20—£610).

Candidates must have had some form of Architectural training, and preference will be given to those with Municipal experience.

Applications stating age, qualifications and experience, together with the names of two referees, should be received by the City Engineer, Town Hall, Wakefield, not later than the 30th JULY, 1956.

## WARWICKSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of CHIEF QUANTITY SURVEYOR, salary J.N.C. Grade "C," £1,295 x £55—£1,515.

Applicants must be members of the R.I.C.S. and have experience in all branches of quantity surveying, including final accounts for large contracts.

The successful applicant will be required to organise and control the work of the quantity surveying section which is to be built up to undertake the preparation of bills of quantities up to the value of approximately £1,000,000 per year, in addition to the settlement of accounts for capital and maintenance works.

The appointment is subject to the Scheme of Conditions of Service of the National Joint Council for Local Authorities and the Local Government Superannuation Acts, 1937-1953. The successful candidate will be required to pass a medical examination.

Forms of application can be obtained from G. R. Barnsley, F.R.I.B.A., County Architect, Shire Hall, Warwick, and should be returned duly completed not later than 28th JULY, 1956.

L. EDGAR STEPHENS,
Clerk of the Council

Shire Hall,
Warwick.
July, 1956.

## COUNTY COUNCIL OF THE WEST RIDING OF YORKSHIRE.

APPOINTMENT OF COUNTY ARCHITECT.

Applications are invited from Fellows or Associate Members of the Royal Institute of British Architects for the post of COUNTY ARCHITECT at a salary of £3,285, rising by three annual increments of £105 and one of £55 until a maximum of £3,655 per annum is reached. The appointment will be subject to the provisions of the Local Government Superannuation Acts, 1937-1953, and the successful applicant will be required to pass a medical examination.

The person appointed will be required to carry out all architectural duties (including the design and construction of buildings) that may be assigned to him from time to time by the County Council and the Standing Joint Committee.

Forms of application, together with particulars of the terms and conditions of the appointment, may be obtained from the undersigned, to whom applications should be submitted, together with copies of three recent testimonials, not later than 31st AUGUST, 1956.

BERNARD KENYON,
Clerk of the County Council.

County Hall,
Wakefield.
July, 1956.

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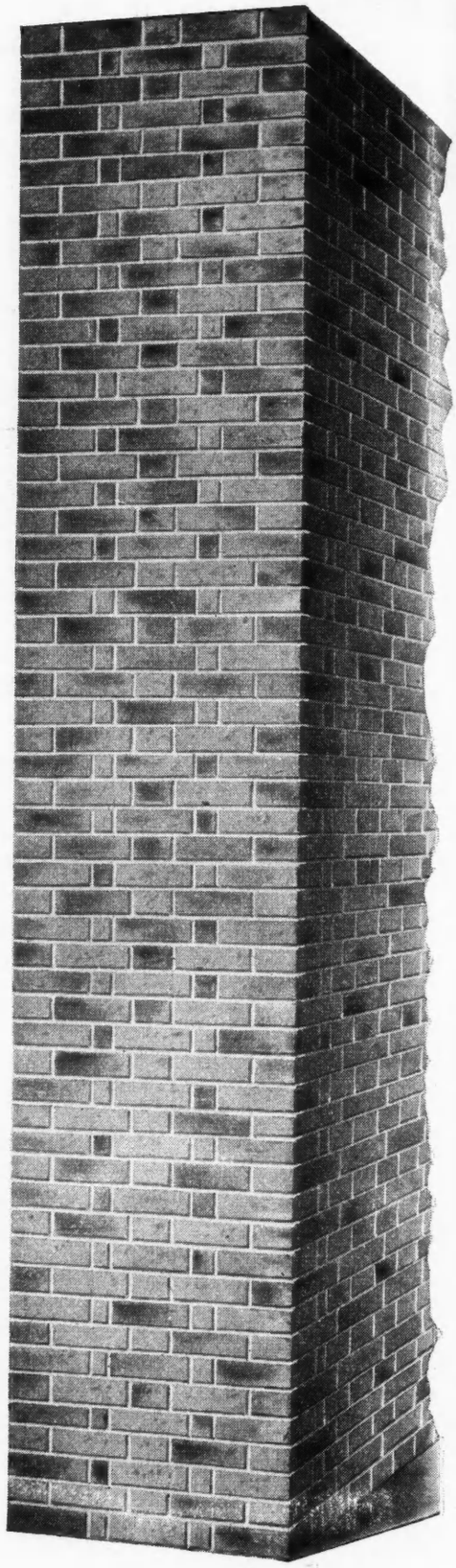

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FIBREGLASS LIMITED, RAVENHEAD, ST. HELENS, LANCS. TELEPHONE: ST. HELENS 4224

## WESTMORLAND COUNTY COUNCIL.

Applications are invited for the post of COUNTY ARCHITECT & COUNTY PLANNING OFFICER. The salary scale is £1,735 x £55—£1,955, the starting salary to be according to experience and qualifications. The appointment is subject to the Conditions of Service of the Negotiating Committee for Chief Officers. The post will include duties on behalf of the Lake District Planning Board. Full particulars may be obtained from me and applications on the official form must reach me by 27th JULY, 1956.

K. S. HIMSWORTH,
Clerk of the Council.

County Hall,
Kendal.

## CITY OF LEEDS EDUCATION COMMITTEE.

LEEDS COLLEGE OF ART.

Principal: E. E. Pullee, A.R.C.A., F.S.A.E.

Applications are invited for the post of HEAD OF THE SCHOOL OF DESIGN, to commence duties as soon as possible.

The position is to be filled by an Architect qualified to teach interior decoration and industrial design.

Professional experience is essential, and a knowledge of furniture design and/or metal products an added advantage.

A broad understanding of art is a necessity, so that full co-operation may be maintained between the Schools of Architecture, Design, Painting, Sculpture and Teacher Training.

Salary: Burnham Technical Scale for Grade III Head of Department, at present £1,215 x £25—£1,365 a year for a man and £972 x £20—£1,092 for a woman.

Application forms (to be returned within 14 days of the appearance of this advertisement) and further particulars may be obtained from the undersigned.

GEORGE TAYLOR,
Chief Education Officer.

Education Department,
Leeds, 1.

## THE CORPORATION OF GLASGOW.

ARCHITECTURAL AND PLANNING DEPARTMENT.

ASSISTANT ARCHITECTS.
PLANNING ASSISTANTS.
CIVIL ENGINEERS.
QUANTITY SURVEYORS.

Vacancies exist for a number of Assistants. Minimum qualification: Intermediate Examination of the appropriate professional body. Salary scale £580 to £1,100 per annum, with placing according to age, experience and qualifications.

Form of application may be obtained from the Principal Administrative Officer, 20, Trongate, Glasgow, C.1.

A. G. JURY,
City Architect and Planning Officer.

## COUNTY BOROUGH OF EAST HAM.

BOROUGH ENGINEER'S DEPARTMENT.

ARCHITECTURAL ASSISTANTS, GRADE II £595-£675).

London Weighting is paid in addition. Salary in excess of the minimum may be paid according to qualifications and experience.

Subsistence allowances may be granted over a reasonable period to the persons appointed if unable to obtain suitable housing accommodation, necessitating the maintenance of two homes.

Further details and application forms, returnable by 27th JULY, 1956, from the Town Clerk, Town Hall, East Ham, E.6.

## N.C.B.—Applications are invited for the posts of Heating Enginer (Building) Grade I and Heating Engineer (Building) Grade II in Edinburgh. The salary will be: Grade I range—£1,000-£1,250; Grade II scale—£675 x £25-£950; and the point of entry will be according to qualifications and experience of the successful candidates. Applicants for the Grade I post must hold Associate Membership of the I.H.V.E., and should preferably hold at least an H.N.C. or equivalent. They must have a wide experience and thorough practical knowledge in designing and supervising the installation of all types of heating and ventilating plant, including large scale steam boilerhouses, plenum warming and hot water supply systems. Applicants for the Grade II post should have at least attained the standard of Sections A and B of the examination for Associate Membership of the I.H.V.E. They must have received a sound technical training including drawing office experience and have a wide experience in designing and in the installation of all types of heating and ventilating plant, including large scale steam boilerhouses, plenum warming and hot water supply systems.—Applications, giving full details of age, education, qualifications, experience (in chronological order), present post and salary, should be forwarded to the Staff Department, 3, Eglinton-crescent, Edinburgh, 12, within 7 days.

## PADDINGTON BOROUGH COUNCIL.

JUNIOR to train as QUANTITY SURVEYOR'S ASSISTANT. Salary within scale £235 to £530; then (subject to efficiency certificate) £555 to £605; and subject to a further certificate £630 to £670. Candidates should possess G.C.E. (3 ordinary passes). The post affords an opportunity and experience for candidates studying for Quantity Surveying Professional Examinations. National Conditions of Service, Superannuation.—Write, age, experience, education, and names and addresses of two referees to the under-signed by 28th JULY, 1956 (Quoting A.293).

W. H. BENTLEY,
Town Clerk.

Town Hall,
Paddington Green, W.2.

## CHIEF INSPECTORS OF WORKS, RURAL WATER SUPPLIES, required by Nigeria Eastern Region, on contract for one or two tours of 12 to 24 months in first instance. Salary scale (including inducement addition) £1,350 rising to £1,488 a year. Gratuity at rate £150 a year. Outfit allowance £60. Free passages for officer and wife. Free passages for two children under age 18 or grant up to £150 annually for maintenance in U.K. Liberal leave on full salary. Candidates must have served apprenticeship in recognised building or mechanical trade, had at least 15 years' experience in trade, including five years as General Foreman or Foreman of Trades on works relating to Water Supply, had experience in construction of wells, reservoirs, laying of pipe lines, and installation of pumping machinery, and be experienced in the organisation and control of labour, stores and transport. Write to the Crown Agents, 4, Millbank, London, S.W.1. State age, name in block letters, full qualifications and experience, and quote M2B/41703/BH.

## NORTHAMPTON BOROUGH.

ASSISTANT ARCHITECT (HOUSING) A.P.T. IV (£710-£885) or Special Grade (£690-£840) according to qualifications and experience.

Applications, stating age, experience, qualifications and appointments, with names of two referees, should reach the Borough Architect, Guildhall, Northampton, by 23rd JULY.

C. E. VIVIAN ROWE,
Town Clerk.

## COUNTY BOROUGH OF EAST HAM.

BOROUGH ENGINEER'S DEPARTMENT.

JUNIOR ARCHITECTURAL ASSISTANTS: Grade I, £530-£610.

London weighting is paid in addition. Salary in excess of the minimum may be paid according to qualifications and experience.

Subsistence allowance may be granted over a reasonable period to the persons appointed if unable to obtain suitable housing accommodation necessitating the maintenance of two homes.

Further details and application forms returnable by 27th JULY, 1956, from the Town Clerk, Town Hall, East Ham, E.6.

## CITY OF YORK.

Applications are invited for the permanent position of CHIEF QUANTITY SURVEYOR. Commencing salary in accordance with qualifications and experience to be fixed within Grade A.P.T. V-VI (£795-£1,080). Applicants should be Members of the R.I.C.S. and should possess a general all-round experience. Suitably qualified persons should apply to the undermentioned office for details of appointment and application forms, which must be returned to the undersigned not later than first post on 1st AUGUST, 1956. Tenancy of a house will be offered if considered necessary.

E. FIRTH,
City Architect.

8, St. Leonard's-place,
York.
July, 1956.

## LONDON COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

Staff are required for varied and interesting work in the VOLUNTARY SCHOOLS SECTION. Salary range between £620 and £817 according to experience Intermediate standard desirable.

(1) SURVEYING ASSISTANTS for preparation and specifications and estimates in connection with maintenance, alterations and minor improvements, and technical supervision of works.

(2) ARCHITECTURAL ASSISTANT for preparation of schemes for development of new and existing school sites and scrutiny of plans and designs for new primary and secondary schools. Applicants should be interested in contemporary school design.

Application forms, returnable by 2nd AUGUST, 1956, from The Architect, (AR/EK/VS/4.), County Hall, S.E.1. (1359)

## COUNTY OF CUMBERLAND.

EDUCATION COMMITTEE.

Applications are invited for the temporary appointment of TWO CLERKS OF WORKS to supervise the erection of CLEATOR MOOR NEW COUNTY SECONDARY SCHOOL and COCKERMOUTH NEW SECONDARY MODERN SCHOOL.

The wage will be £12 15s. 0d. per week, plus £2 5s. 0d. per week subsistence. Applicants must have had good practical knowledge of all trades, and must have supervised the erection of public buildings, including steel-framed and traditional buildings; and should be able to measure up work.

Particulars and forms of application may be obtained from John H. Haugham, F.R.I.B.A., County Architect, 15 Portland-square, Carlisle, to whom completed applications should be returned not later than MONDAY, 30th JULY, 1956.

## NATIONAL COAL BOARD-NORTH EASTERN DIVISION.

Applications are invited for the following appointments in the office of the Divisional Chief Architect situated at Conisborough, near Doncaster:—

QUANTITY SURVEYOR GRADE II. (Salary Scale, £700 x £30-£1,000 per annum). Qualifications: A.R.I.C.S.

ARCHITECTURAL ASSISTANTS GRADE II (Salary Scale: £520 x £20-£615 per annum). Qualifications: Preferably Intermediate R.I.B.A. or studying for such Examination.

JUNIOR ARCHITECTURAL ASSISTANTS (Salary Scale: according to age. £4 5s. 0d. per week at 18 to £8 15s. 0d. per week at 25).

Full details and application forms obtainable from Hugh Smith, F.R.I.B.A., Deputy Chief Architect, National Coal Board, P.O. Box No. 4, Denaby, near Doncaster.

## BRACKNELL DEVELOPMENT CORPORATION.

Applications are invited for the following appointments in the Chief Architect's Department:—

(1) CLERK OF WORKS at a salary of £675, rising to £800 by annual increments of £25 subject to satisfactory service. Applicants should preferably have had good experience of housing works.

(2) ASSISTANT CLERK OF WORKS at a salary of £600, rising to £650 by annual increments of £25 subject to satisfactory service.

Superannuation schemes. Medical examination. Housing available in due course and temporary family lodging allowance in suitable cases. Applications, in envelopes endorsed "C.W.A.," stating post applied for, age, experience, when available to commence duties, past and present appointments (with salaries), and the names of two referees, must reach the General Manager, Bracknell Development Corporation, Farley Hall, Bracknell, Berks, by MONDAY, 30th JULY, 1956.

## HERTFORDSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following:—

(a) SENIOR ASSISTANT QUANTITY SURVEYOR, Grade V. £795-£970.

(b) ASSISTANT QUANTITY SURVEYOR, Grade IV. £710-£885.

(c) ASSISTANT ARCHITECT, £690-£840.

Previous Local Government experience not essential. Applicants must give full particulars of qualifications; training and experience, and state clearly which post is applied for.

Applications, with names of two referees, to County Architect, County Hall, Hertford, Herts., not later than 23rd JULY, 1956.

## KENT COUNTY COUNCIL.

SURVEYING ASSISTANTS are required for work in connection with acquisition of land and property for the Council's large and varied building programme.

Applicants must have had sound practical experience of the surveying of land and buildings, and be familiar with current legislation relating to the acquisition of land.

Salary within scales (a) £530-£610, (b) £595-£675 or (c) £690-£840 according to qualifications and experience. Candidates for (b) must have passed the Intermediate R.I.C.S., and for (c) the Final R.I.C.S. examination or possess similar qualifications.

Application forms from the County Architect, Springfield, Maidstone. Closing date: 30th JULY, 1956.


# Let ARUP & ARUP do your excavating on contract

Contract with Arup & Arup to do your excavating. By doing this you guarantee yourself good profit and make sure the work is speedily and expertly carried through.

Arup & Arup will quote for every excavation job—site stripping, reduce levels, footings and trenching. Contact Arup & Arup today.

**Arup & Arup Limited, Colquhoun House, Broadwick Street, London, W.1. Phone: GERrard 2708 (5 lines)**

## MALVERN URBAN DISTRICT COUNCIL.

APPOINTMENT OF JUNIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of a Junior Architectural Assistant in the Department of the Surveyor and Water Engineer, at a salary in accordance with Grade I of the A.P. & T. Division of the National Scales (£530 to £610).

Candidates must have had experience of Architectural Draughtsmanship and Building Construction. Elementary knowledge of site measurements and quantities will be an advantage.

The appointment will be subject to the provision of the Local Government Superannuation Act, 1937, and to the National Joint Council Scheme of Conditions of Service.

Applications, stating age, qualifications and experience, together with the names of two persons to whom Reference can be made, must be delivered to the undersigned not later than 30th JULY, 1956.

HOUSING ACCOMMODATION will be provided if required by the successful applicant.

J. BULMAN,
Clerk of the Council.

The Council House,
Malvern.
5th July, 1956.

## WELSH REGIONAL HOSPITAL BOARD.

NEW 512 BED HOSPITAL AT SWANSEA.

Applications are invited from Registered Architects for the following pensionable posts on the Temporary Staff of the Regional Architect at 5/7, Museum-place, Cardiff, in connection with the preparation of drawings and specifications for the above new hospital.

1 SENIOR ASSISTANT ARCHITECT. Salary: £920 x £30(5) x £25(1)-£1,095.

1 ASSISTANT ARCHITECT. Salary within the Grade: £640 x £25(4) x £30(4) x £35(2)-£930, according to experience.

Experience in hospital design, though desirable, is not essential, but applicants should be widely experienced in general architectural practice.

Applications, stating age, qualifications, experience, present position, and salary, together with the names of two referees, should be addressed to the Secretary of the Board, Temple of Peace and Health, Cathays Park, Cardiff, (from whom further information may be obtained), by MONDAY, 30th JULY, 1956.

## BOROUGH OF CASTLEFORD.

QUANTITY SURVEYING ASSISTANT.

Applications are invited for the above appointment in the Borough Engineer and Surveyor's Department at a salary in accordance with Grade A.P.T. IV.

Applicants should hold a recognised professional qualification and should have had experience in the taking-off and preparation of bills of quantities for housing and other building work. Experience in the preparation of estimates for such works would also be of advantage.

The appointment is superannuable, and the successful applicant will be required to pass satisfactorily a medical examination.

If required, housing accommodation will be provided for a successful married applicant.

Forms of application may be obtained from the undersigned and must be returned not later than the 4th AUGUST.

Canvassing, either directly or indirectly, will disqualify.

E. HUTCHINSON,
Town Clerk.

Town Hall,
Castleford.

## URBAN DISTRICT COUNCIL OF BASILDON.

ARCHITECTURAL ASSISTANT,
Grade A.P.T. II (£595-£675 p.a.).

Applications are invited for the above established post in the Engineer and Surveyor's Department.

Commencing salary according to experience and qualifications. Inter. R.I.B.A. or equivalent desired. Housing considered.

The Urban District has a population of approximately 59,000, covers 27,000 acres and includes the New Town area and two Townships designated as Expanded Towns. Rapid development will provide an increasing variety of interesting work.

Full particulars and application forms from and returnable to Mr. S. A. Wadsworth, A.M.I.C.E., A.M.I.Mun.E., Council Offices, High-street, Billericay, Essex. Closing date: 31st JULY, 1956.

## CITY ARCHITECT'S DEPARTMENT, MANCHESTER.

SENIOR ASSISTANT ARCHITECT (Temporary) required. Salary A.P.T. IV (£710-£885). Must be A.R.I.B.A. Particulars and form from City Architect, P.O. Box 488, Town Hall, Manchester, 2. Closing date 28th JULY.

## BOROUGH OF BARKING.

DEPARTMENT OF THE BOROUGH ARCHITECT.

QUANTITY SURVEYING ASSISTANT.

Assistant for working-up required on a salary scale of £530-£610 per annum plus London Weighting £10-£30 per annum according to age. Written applications should reach the undersigned not later than 9 a.m., MONDAY, 30th JULY, 1956.

E. R. FARR,
Town Clerk.

Town Hall,
Barking.

## NORTH WEST METROPOLITAN REGIONAL HOSPITAL BOARD.

ASSISTANT QUANTITY SURVEYOR Required. Applicants should be Associate members of the R.I.C.S. and be thoroughly experienced in taking-off abstracting and billing of quantities, measurement of work in progress and settlement of final accounts.

Salary scale: £640 x £25(4) x £30(4) x £35(2)-£930 plus £20-£40 London Weighting. Salary above minimum may be paid according to appropriate experience since obtaining qualification.—Applications, stating age, qualifications (with dates), and experience, together with the names of two referees to Secretary, North West Metropolitan Regional Hospital Board, 11a, Portland-place, W.1, by 15th AUGUST.

## CHISLEHURST & SIDCUP URBAN DISTRICT COUNCIL.

TEMPORARY CLERK OF WORKS.

BROMLEY-LANE A.222.

Applications invited from experienced Clerks of Works to supervise re-alignment, widening and reconstruction of one-third of mile of Bromley-lane A.222 over period of about nine months. Salary 14 guineas per week.

Applications to the Clerk, Council Offices, Sidcup Place, Sidcup, Kent. Closing date: 31st JULY, 1956.

## HIGHWAYS

SUPERINTENDENT required for the Town Engineer's Department, Lagos Town Council, Nigeria, on contract for two tours of 18-24 months each in the first instance, with prospects of permanency. Commencing salary according to age and experience on an incremental scale ranging from £1,230 to £1,524 a year (including inducement allowance). Gratuity at rate of £150 a year payable on satisfactory completion of contract. Outfit allowance £30 to £60. Free first-class passages for officer and wife. Free passages for children up to equivalent of two adult passages. Liberal leave on full salary and free medical attention. Partly furnished quarters available at rental of eight and one-third per cent. of basic salary subject to a maximum of £150 a year.

Candidates should be between 25 and 40 years, must be Corporate Members of the Institute of Works and Highways Superintendents, and have had considerable experience in road construction and maintenance. Preference will be given to applicants who have held similar appointments with a Local Authority. Duties are similar to those of Highways Superintendent in the U.K., and comprise the supervision of road maintenance and construction by direct labour and by contract.

Applicants must disclose whether they are related to any member or senior officer of Lagos Town Council. Canvassing will be taken as evidence that a candidate's merits are insufficiently good to justify appointment.

Write not later than 27th JULY to the Crown Agents, 4, Millbank, London, S.W.1, enclosing at least two copies of recent testimonials; state age, name in block letters, full qualifications and experience, and quote M2B/41862/BH.

## COUNTY BOROUGH OF ROCHDALE. BOROUGH SURVEYOR'S DEPARTMENT.

CHIEF HOUSING ARCHITECT.

Applications are invited for the appointment of Chief Housing Architect at a salary of £880 to £1,080 (Grade A.P.T. VI).

Preference will be given to applicants who are Associates of the Royal Institute of British Architects.

The appointment will be subject to the National Scheme of Conditions of Service, the Local Government Superannuation Acts, and to passing a medical examination.

Consideration will be given to the provision of housing accommodation.

Canvassing is prohibited and applicants must disclose whether they are related to any member or senior official of the Council.

Applications, stating age, qualifications, training and experience, together with the names and addresses of two persons to whom reference can be made, and endorsed "Chief Housing Architect," must be delivered to the Borough Surveyor, Town Hall, Rochdale, by 30th JULY, 1956.

## CARSHALTON URBAN DISTRICT COUNCIL. (Population 63,000)

TWO ASSISTANTS, ARCHITECTURAL SECTION OF ENGINEER AND SURVEYOR'S DEPARTMENT. Must hold Final examination Certificate of the R.I.B.A. and be Registered Architects. Must also be competent in design and construction and have had a full and varied practical experience. Salary within A.P.T. Grade IV plus London "Weighting" (£740-£915).

Applications, on forms obtainable from the undersigned, must be returned with the names of three referees not later than MONDAY, 13th AUGUST, 1956. Canvassing will disqualify.

C. H. DURRANT,
Clerk of the Council.

Council Offices,
The Grove,
Carshalton, Surrey.

RE-ADVERTISEMENT.

## CITY ARCHITECT'S DEPARTMENT, MANCHESTER.

Applications invited for the position of DEPUTY WORKS MANAGER for the Town Hall Committee Works Department. A.P.T. Grade VI, salary £880-£1,080 per annum.

The Works Department comprises about 700 men in all trades, and undertakes the alteration, repair and maintenance of the properties of the various committees, other than housing, as well as new works of construction.

Candidates must have extensive technical and administrative knowledge of the building trade, including estimating, pricing of bills of quantities and ordering of materials for new building projects, and have had practical experience in the supervision and management of building operatives.

Particulars and form of application returnable by 28th JULY, may be obtained from the City Architect, P.O. Box No. 488, Manchester, 2.

## OXFORDSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited from assistants anxious to participate in interesting and responsible development work on substantial new projects, principally schools, making full use of contemporary methods and materials. The salary will be between £530 and £885, depending upon qualifications and experience.—Applications, giving particulars of age, education, experience and qualifications, with the names of two referees and one testimonial to be forwarded to the County Architect, Park End-street Offices, Oxford, by the JULY, 1956.

GERALD GALE BURKITT,
Clerk of the Council.

County Hall,
Oxford.

## CITY OF BELFAST.

APPOINTMENT OF DEPUTY EDUCATION ARCHITECT AND HEATING ENGINEER.

Applications are invited for the following positions on the staff of the Education Architect (Donald A. Shanks, Dipl.Arch., A.R.I.B.A.):—

DEPUTY EDUCATION ARCHITECT.

Qualifications: Registered Architect and corporate membership by examination of the R.I.B.A. Ability and interest in contemporary architectural design and construction. A sound knowledge of modern educational buildings. Administrative and Local Government experience desirable but not essential. Salary scale (which may be reviewed shortly): £1,105 x £50—£1,355.

HEATING ENGINEER.

Qualifications: Corporate membership of the Institution of Heating and Ventilating Engineers. Wide experience in the design and supervision of all types of heating, plumbing and ventilation services, including large-scale cooking installations. Duties: Supervision of the engineering section engaged on the design of new work and the maintenance of existing plant. Salary scale: £855 x £35—£1,100.

The commencing salary for both positions will be fixed according to the qualifications, ability and experience of the successful applicants. Superannuation contributions of approximately 6 per cent. of remuneration will be payable. Reciprocal pension arrangements exist between the Corporation and other Public Authorities. Favourable consideration will be given in suitable cases to the recoupment, up to a limit of 50 per cent. of removal expenses, of newly appointed officers, coming to reside in Belfast.

Canvassing will disqualify.

Application forms and further particulars are obtainable from the Education Office, Academy-street, Belfast. Completed applications must reach the undersigned by 2nd AUGUST.

JOHN DUNLOP,
Town Clerk.

City Hall,
Belfast,
P.O. Box 234.
6th July, 1956.

## CITY OF NORWICH.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment on the permanent staff of a HEATING AND VENTILATING ENGINEER. ING ASSISTANT. Salary within Grade A.P.T. II (£595 x £20 to £675 per annum).

Preference will be given to those having passed the I.H.V.E. Intermediate Examination or equivalent.

Application forms, giving full details of post, can be obtained from the City Architect, City Hall, Norwich, and must be received not later than 5 p.m. on FRIDAY, 27th JULY, 1956.

## BOROUGH OF BARRY.

Applications are invited for the following appointments:—

(a) SENIOR BUILDINGS ASSISTANT (Permanent) Fully Qualified.

(b) QUANTITY SURVEYING ASSISTANT (Temporary appointment, for a period of two years' in the first instance). Chief duties are concerned with quantities and specifications for site works, Corporation houses and Public buildings, and work in connection with the District Labour Organisation.

N.J.C. Conditions of Service, and salary on Special Scale for Engineering, Surveying and Architectural Assistants (£690-£840) but in the event of the successful applicant for post (b) not possessing the requisite qualifications the salary will be according to qualifications and experience.

The provisions of the Local Government Superannuation Acts apply, but in the case of post (b) only when that person's aggregate Local Authority Service exceeds two years.

The successful applicant for each post will be required to pass a medical examination by the Council's Medical Officer of Health.

Housing accommodation will be available for successful applicant for Post (a).

Application forms may be obtained from the Borough Engineer, Town Hall, Barry, and should be returned to him by SATURDAY, the 28th JULY, 1956.

Canvassing, either directly or indirectly will disqualify.

J. CLEMENTS COLLEY,
Town Clerk.

Town Hall,
Barry.
9th July, 1956.

## BUCKS COUNTY COUNCIL.

Applications are invited for the following appointments in the County Architect's Department:—

ASSISTANT QUANTITY SURVEYOR, Grade VI, £880-£1,080 p.a.

ASSISTANT QUANTITY SURVEYOR, Grade V, £795-£970 p.a.

ASSISTANT QUANTITY SURVEYOR, Grade III, £640-£765 p.a.

JUNIOR ASSISTANT QUANTITY SURVEYOR, Grade II, £595-£675 p.a.

The appointments are superannuable and subject to medical examination.

A weekly allowance of £1 5s. and return fare home once every two months may be paid for six months to newly appointed married officers of the Council unable to find accommodation.

Applications, on forms to be obtained from F. B. Pooley, County Architect, County Offices, Aylesbury, must be returned by 24th AUGUST, 1956.

## MIDDLESEX COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

BUILDING INSPECTOR, A.P.T. II (£625-£705 p.a. if 26 years or over, including London weighting) required. Duties include supervision of building maintenance and minor capital works in an area of County. Commencing salary according to qualifications and experience. Established, pensionable, subject to medical assessment and prescribed conditions. Application forms from County Architect, 1, Queen Anne's Gate Buildings, Dartmouth-street, Westminster, S.W.1, returnable by 24th JULY (quote T.203 B). Canvassing disqualifies.

## BOROUGH OF LUTON.

TECHNICAL STAFF.

Applications invited for:—

(a) SENIOR QUANTITY SURVEYING ASSISTANTS: Salary A.P.T. V. (£795-£970). Fully qualified, preferably R.I.C.S., with experience of taking-off, abstracting and billing for large contracts and settlement of final accounts.

(b) QUANTITY SURVEYING ASSISTANT: Salary, General Division to A.P.T. IV (£180-£885) according to qualifications and experience.

(c) ARCHITECTURAL ASSISTANT: Salary, General Division to A.P.T. IV (£180-£885) according to qualifications and experience.

Housing accommodation available with each post.

N.J.C. Service Conditions. Application forms from Borough Architect, Town Hall, Luton, returnable by 31st JULY, 1956.

PREDECORATED WASHABLE HARDBOARD

OIL TEMPERED SUPER HARDBOARD

UNABOARD

BROWN · OFF-WHITE & ENAMELLED HARDBOARD

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*Full details available from:*

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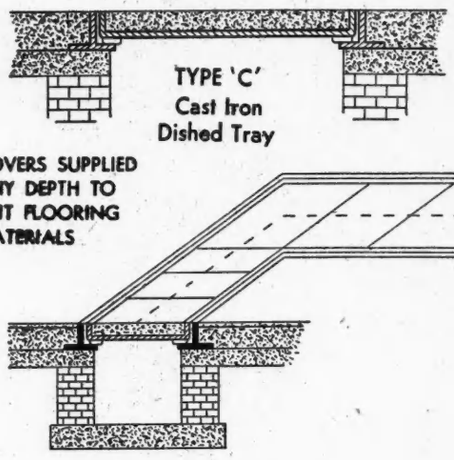
CVS-286

**TRENCH COVERS AND BEARERS**




COVERS SUPPLIED ANY DEPTH TO SUIT FLOORING MATERIALS

*Measurements taken on site*

**ASHWELL & NESBIT LTD**

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**BARKBY ROAD, LEICESTER**

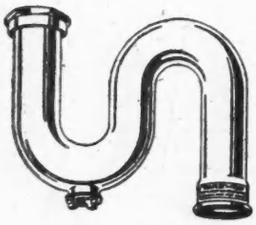
*Branches at London, Birmingham, Manchester, Leeds, Glasgow and Belfast*

*It's a good job*

*—they specified*

**COPPER TRAPS**

A good job because
—whether connected to Copper, Lead or Iron piping they will never leak,
—they are resistant to all climatic conditions,
—they are modern, more sanitary,
—they are lighter, cheaper, easier to handle.



**For B.S.S. 659 Copper Tube, use our Copper Traps in conjunction with the 'TRAPEZE' patent Slip-in Joint. Simply wet end, push into joint and it is permanently leakproof.**

★ *Obtainable solely from leading Tap Manufacturers through the normal merchant channels.*

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*Phone: ASTon Cross 3771-2*
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*Here's a Good Tip*

Batley, smooth-sliding, trouble-free 'Up and Over' Doors can be quickly and easily fitted to any width or height of opening. With finger-tip action, the door slides smoothly on ball-bearing wheels, leaving an unobstructed opening with clear height of 6ft. 1in. There are no springs to lose tension; nothing to warp or sag. Will last a lifetime.

- **Panelled in Aluminium Alloy, double crossed braced for strength and rigidity.** £20
- **In Exterior Grade Mahogany Plywood, with grained finish to take varnish or paint.** £19
- **Size 7' 6" wide x 6' 3" high. Other sizes available, details on request.**

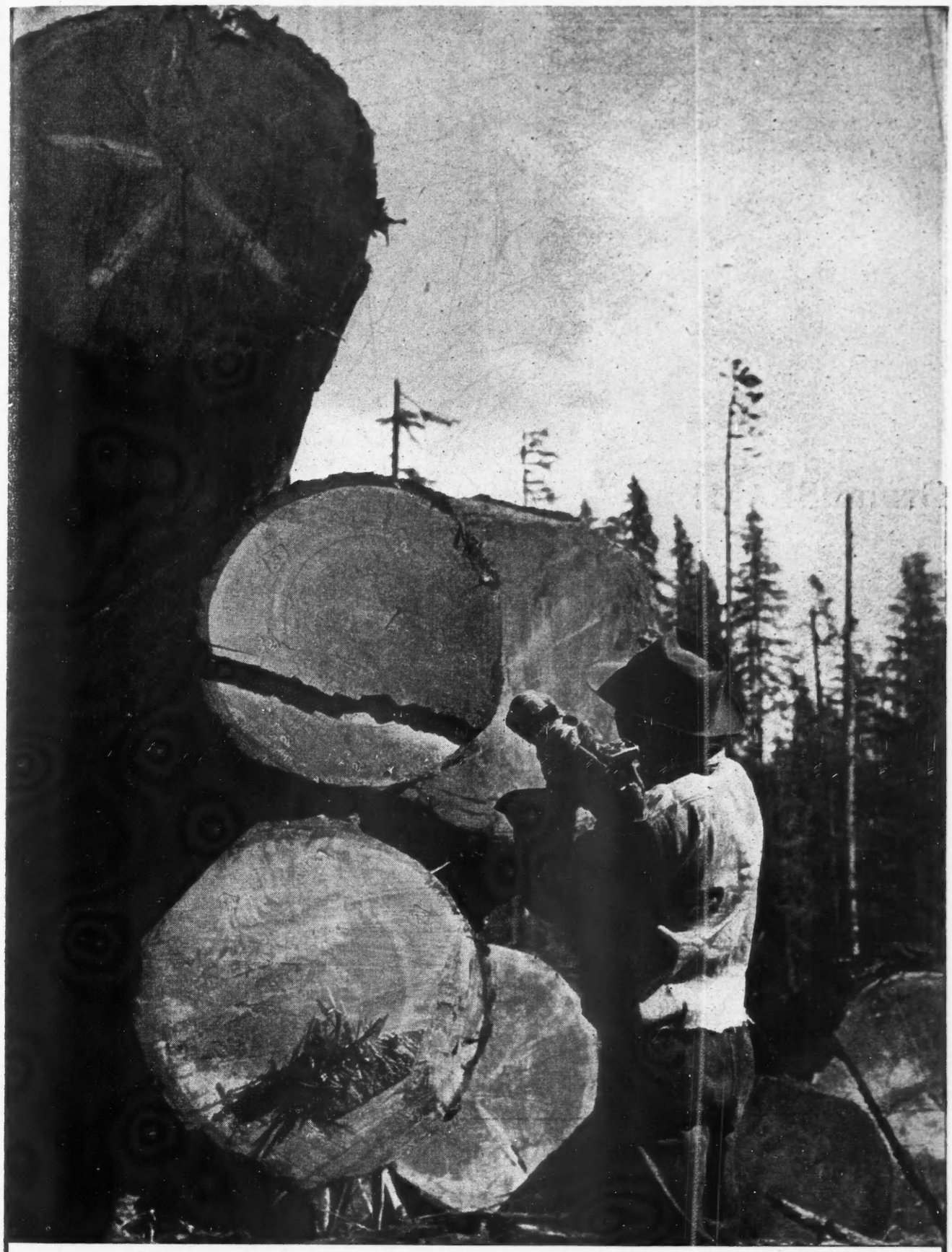
**FREE DELIVERY ENGLAND & WALES**

Patent No. 735602

**BATLEY UP & OVER DOOR**

*Full details and literature from:—*

**ERNEST BATLEY LTD.** 66d COLLEDGE ROAD, HOLBROOKS, COVENTRY.



**THE MIDLAND WOODWORKING CO. LTD. MELTON MOWBRAY**

*Specialists in high class Standard Joinery for the Building Trade*

AP/MW.14

# Grand SLAM!

Temper ! Or was it just accidental — or even the wind ? Whatever the answer the damage is done, both to the door and to the nerves of the victim. But you don't have to expose your visitors, your staff, or yourself to this particular form of torture. The simple answer is to fit smooth, silent YALE door closers which not only keep rooms quieter, but warmer and more private too.

Door closers are among the many YALE products which bring security, convenience and dignity to doors of every kind — in factories, offices, hotels, homes and many other buildings.

## Where there's a door there's a need for YALE

REGISTERED TRADE MARK

DOOR CLOSERS
MASTER-KEYED SUITES
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LOCKS

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# BEHIND THE GLASS CURTAIN

Behind the impressive, gleaming facade of 'curtain walling' there will be wailing and gnashing of teeth UNLESS the glazing compound used is equal to this great advance in the technique of rapid building.

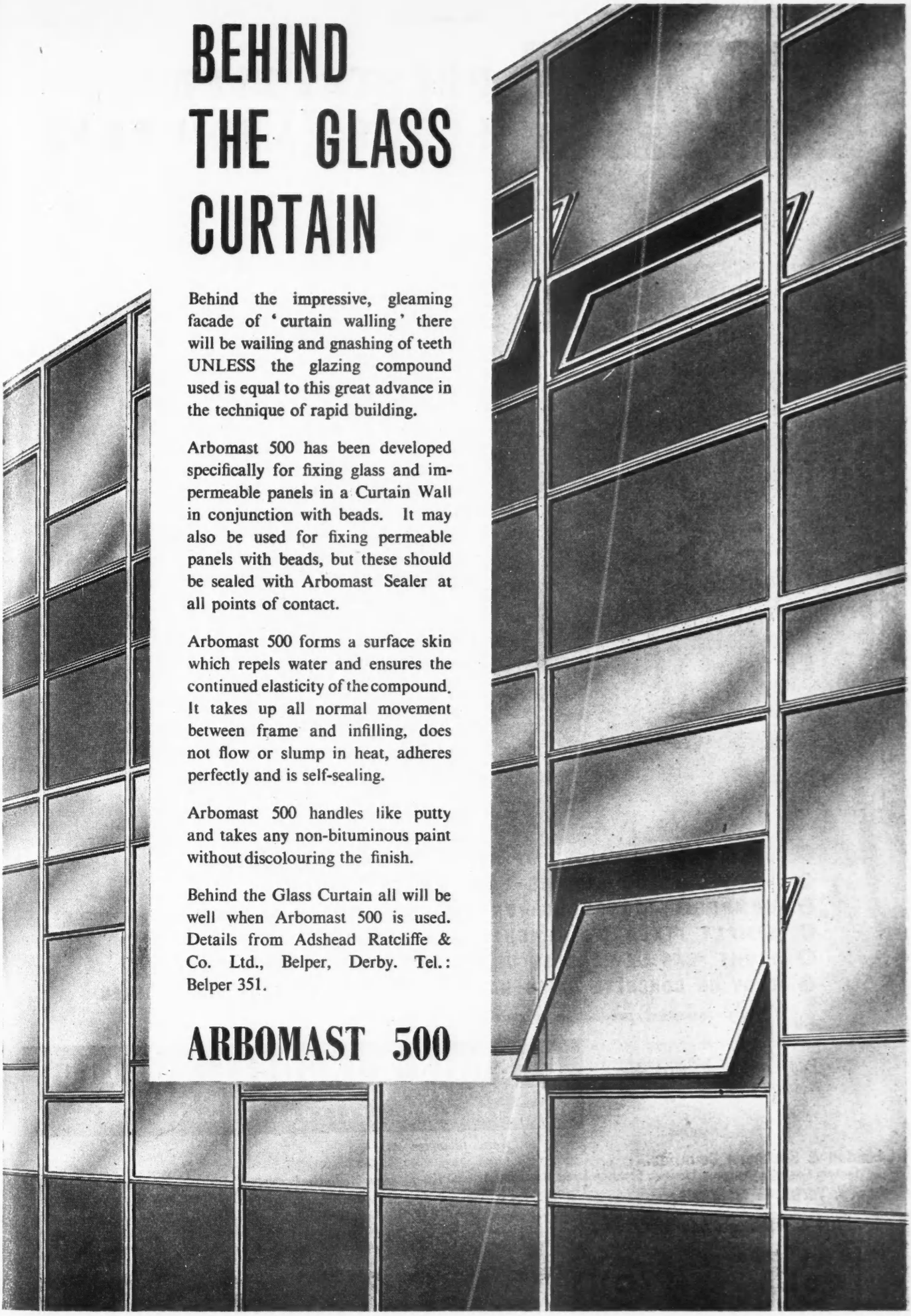
Arbomast 500 has been developed specifically for fixing glass and impermeable panels in a Curtain Wall in conjunction with beads. It may also be used for fixing permeable panels with beads, but these should be sealed with Arbomast Sealer at all points of contact.

Arbomast 500 forms a surface skin which repels water and ensures the continued elasticity of the compound. It takes up all normal movement between frame and infilling, does not flow or slump in heat, adheres perfectly and is self-sealing.

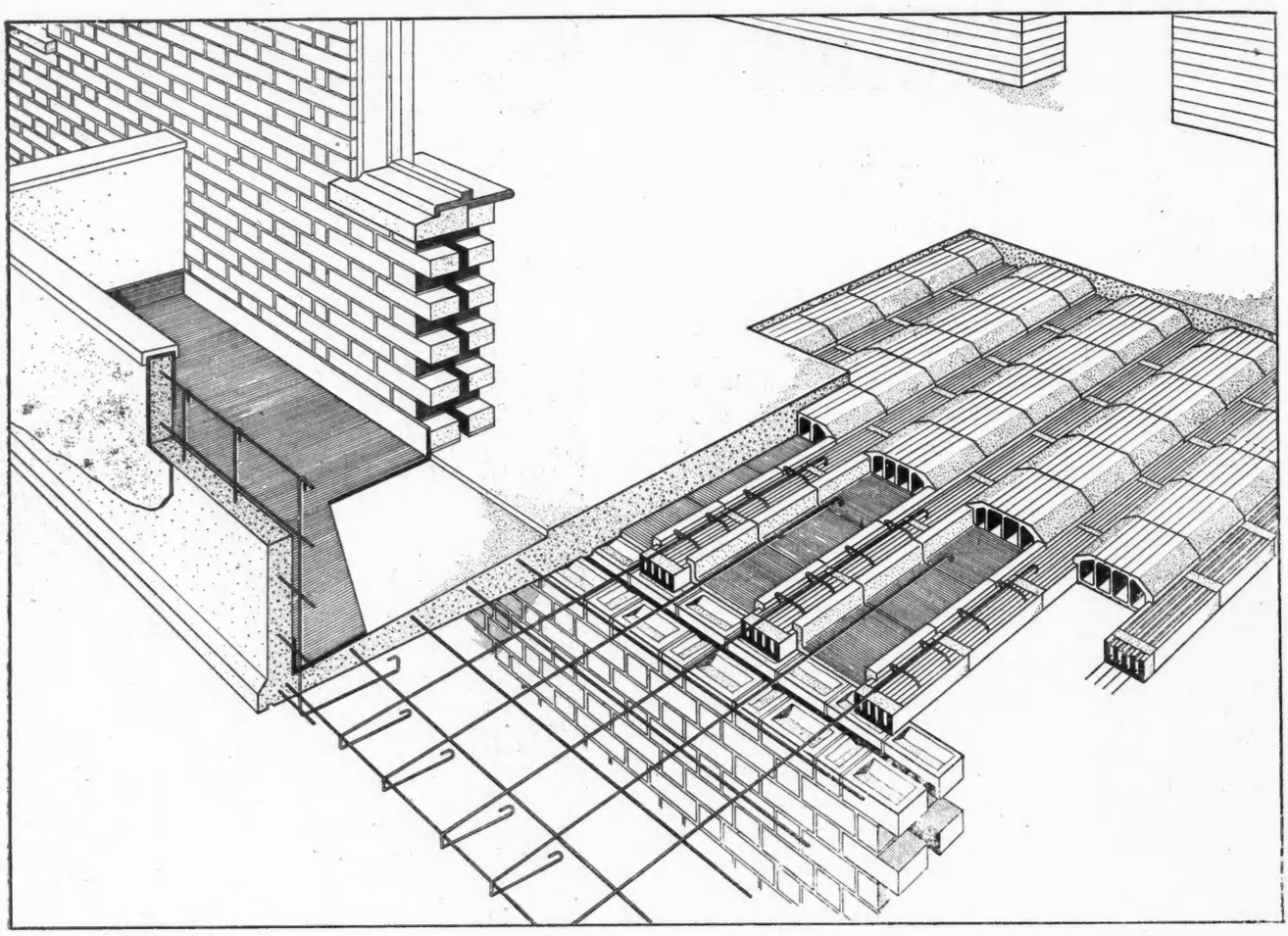
Arbomast 500 handles like putty and takes any non-bituminous paint without discolouring the finish.

Behind the Glass Curtain all will be well when Arbomast 500 is used. Details from Adshead Ratcliffe & Co. Ltd., Belper, Derby. Tel.: Belper 351.

## ARBOMAST 500

# *Stahlton* PRESTRESSED FLOORS AND ROOFS



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2. PRESTRESSING ALLOWS FOR LENGTHY SPANS
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*Greatly increased production permits speedy deliveries*

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Costain Concrete Company Limited, Stahlton Lane, Southend Arterial Road, Childerditch, Nr. Brentwood, Essex. Telephone: Herongate 317

**Lancs. Yorks. & Midlands.**
R. Costain & Sons (Liverpool) Ltd., Barlows Lane, Liverpool 9. Telephone: Aintree 4141/5

**Scotland & Northern Counties.**
Costain Concrete Company Ltd., Coltness Factory, Newmains, Lanarkshire. Telephone: Wishaw 880

**Wales & West Country.**
Costain Concrete Company Ltd., Cowbridge Road, Bridgend, Glam. Telephone: Bridgend 961

AP 260/46

# AN *EVEN TOUGHER* FIAT TRACTOR

# WITH THE *BRAY-MACKAY* ANGLEDOZER

## AND THESE *NEW* FEATURES

***NEW*** heavier gauge sheet steel used for sides, frames and fuel tank.

***NEW*** completely enclosed larger diameter front idler increases area of ground contact.

***NEW*** reinforced mounting and guides for the idlers ensure perfect lateral and vertical alignment.

***NEW*** counterbore track links reduce wear by abrasive materials between pin and bush.

***NEW*** reinforced mounting for track release mechanism withstands greater shock-loads.

***NEW*** sprocket guards and heavier roller guards minimise danger of damage due to jamming by rocks.

***NEW*** bellows type seals for track rollers and idlers give positive sealing.

***NEW*** heavy duty reinforced main spring.

***PLUS THESE WELL KNOWN FIAT FEATURES***

**PLUS** *Fiat 4-stroke diesel engine producing 55 brake horsepower.*

**PLUS** *Extremely high drawbar pull (12,400 lb. maximum).*

**PLUS** *Low ground pressure of 4.67 lb. per sq. in.*

**PLUS** *Service facilities and service exchange arrangements.*

THE NEW FIAT 55LI CAN BE DEMONSTRATED ON YOUR OWN SITE. WRITE FOR FULL DETAILS.

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MACKAY INDUSTRIAL EQUIPMENT LTD., FAGGS ROAD, FELTHAM, MIDDLESEX. (FELTHAM 3435)

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ANTI-SIPHON TRAPS

GREVAK 'Bath' traps with overflow connections and 'Senior' traps, both in cast-iron, were used extensively throughout the eight blocks of flats comprising Clapham Crescent, S.W.4, erected for the Wandsworth Borough Council. Just one recent example of the extensive specification of GREVAK patent anti-siphon waste traps to comply with the need for high standards of efficiency and hygiene in all plumbing systems.

*Architect: Harold Bailey, Sutcliffe & Partners*
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WE HAVE AN EXHIBIT AT THE BUILDING CENTRE
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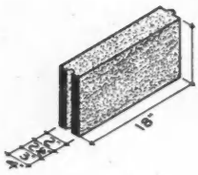
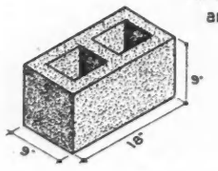
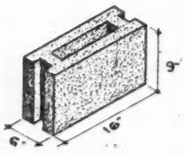



Made to British Standard Specification No. 492, using best clean washed furnace clinker and British Portland Cement. Loss on ignition 19.93%. The blocks are incombustible within the meaning of B.S.S. No. 476. They can be supplied faced either one or both sides, 2", 2½", 3" and 4" thickness blocks.




**BALLAST CONCRETE BLOCKS**

Made with clean washed ballast gauged with sharp sand and Portland cement. Faced for external work if required. Where used for external load-bearing walls, blocks may be used for carrying floor joists and roof loads. Sand and cement faced one or both sides if required.




TELEPHONE: CENTRAL 5866 (5 LINES)

# BLOCKS



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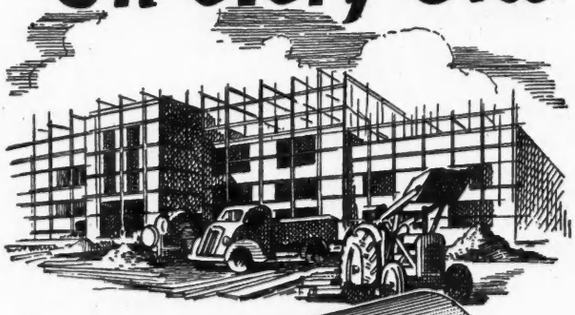

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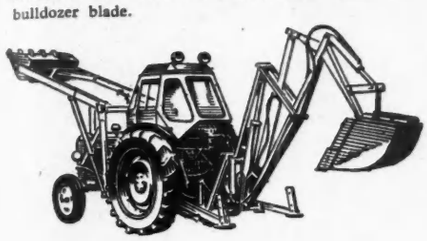
A one-man 'team' of great value to Builders. Available with fore-end loader, crane hook and bulldozer blade.



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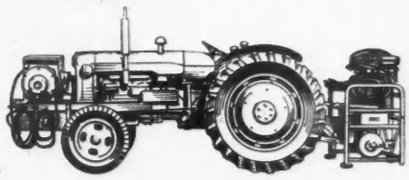
Fitted with forward-mounted **MUREX** 3-400 amp. Arc Welding Generator, and rear-mounted **HOLPAK** Air Compressor Unit.



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**NEW TYPE FORD MAJOR** diesel tractor, fitted with single ram hydraulic bulldozer. Very good outfit : £490
We shall be pleased to arrange **HIRE PURCHASE** on all items.
**FORDSON MAJOR TRACTOR** with L4 diesel engine and Holman Tractair Compressor. In good order : £300. Breakers available.
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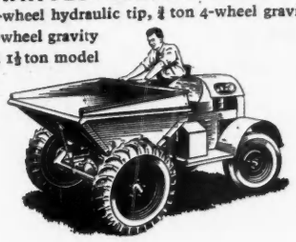

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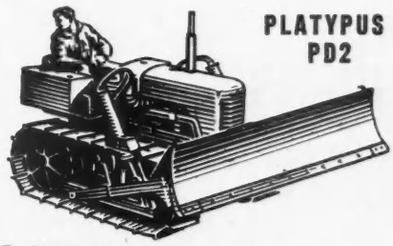

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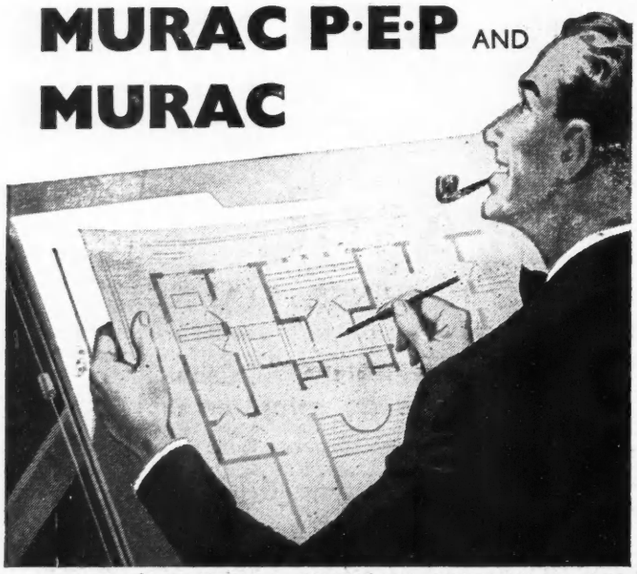

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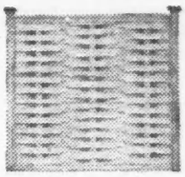

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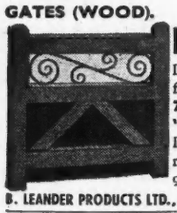

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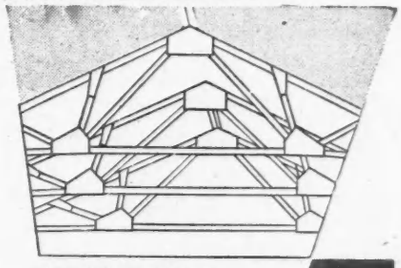

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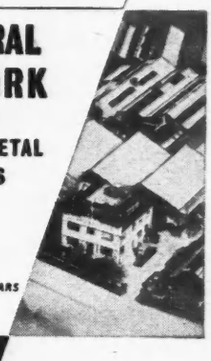

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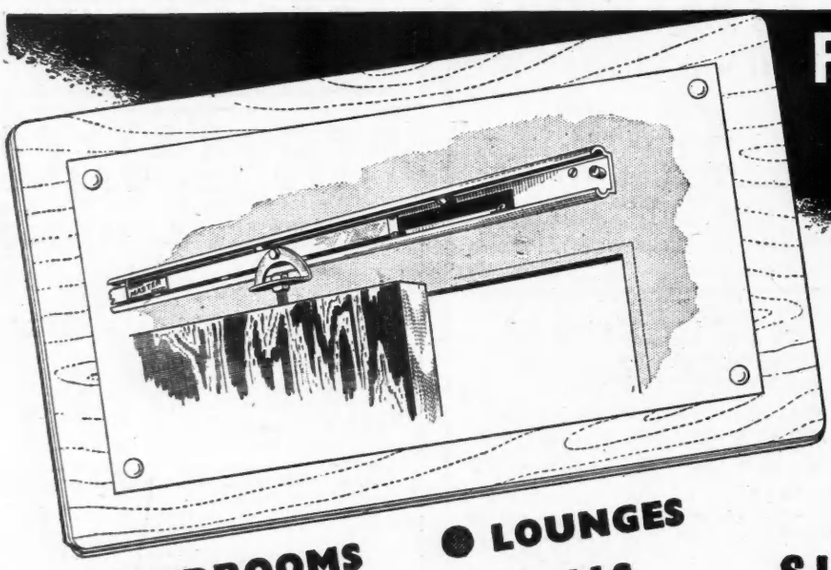

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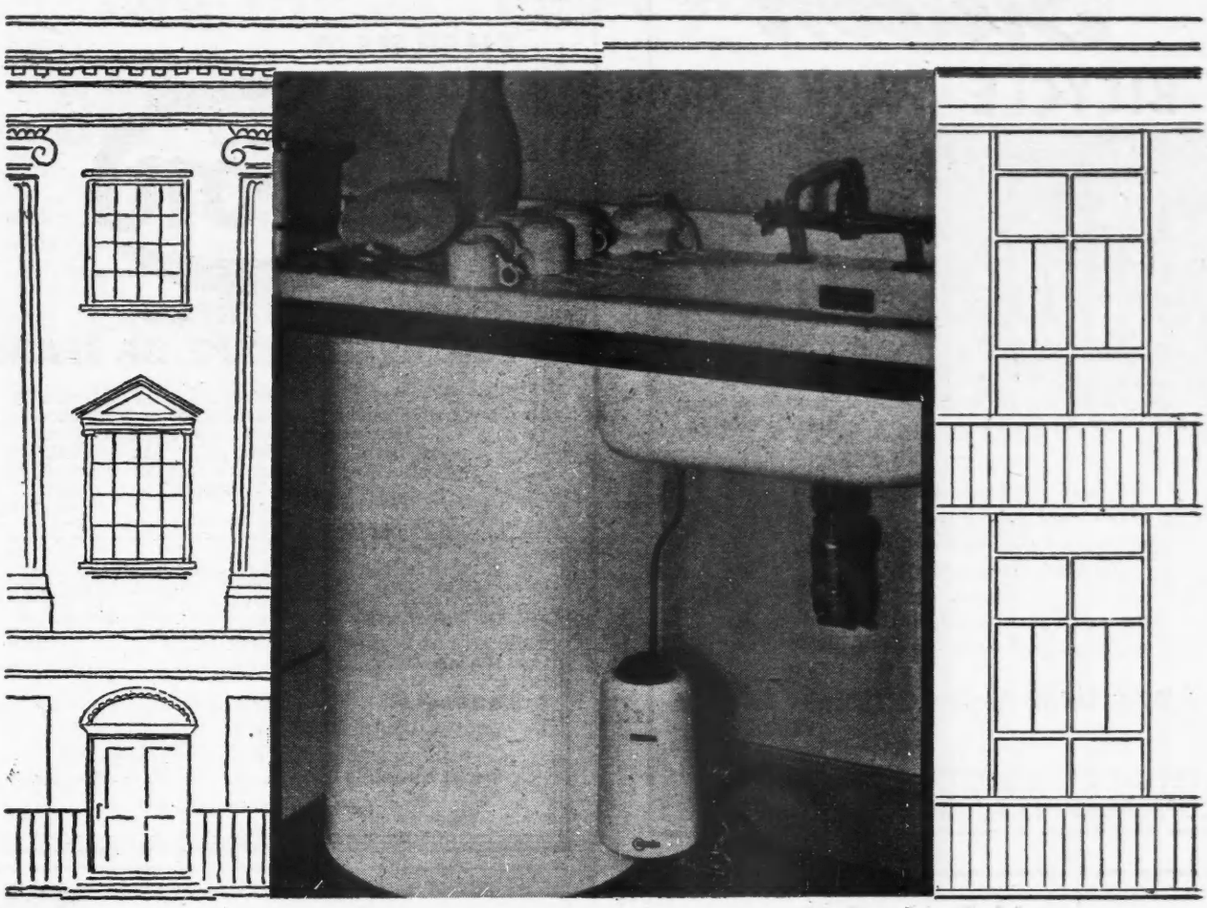

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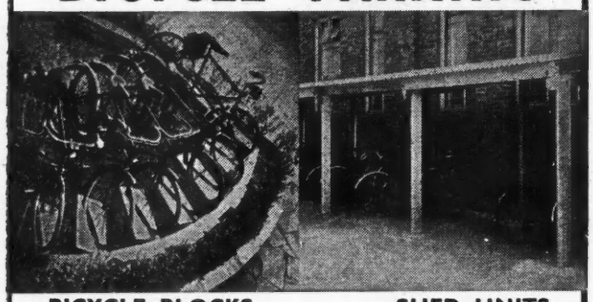

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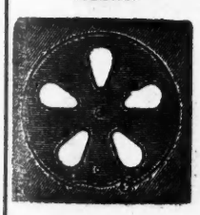

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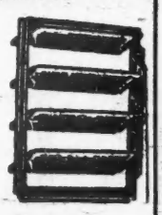

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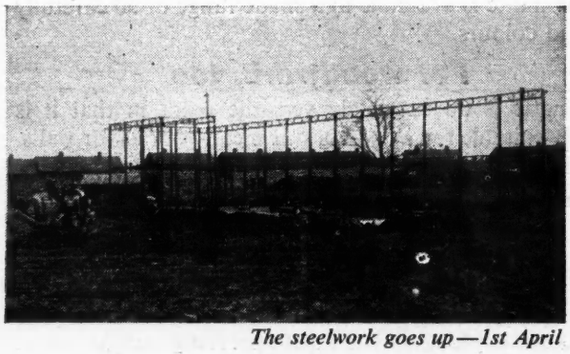

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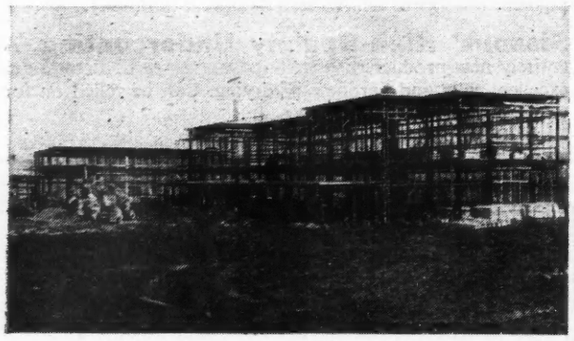

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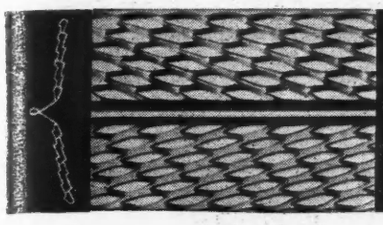

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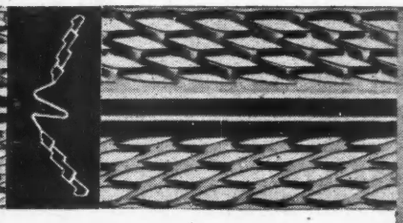

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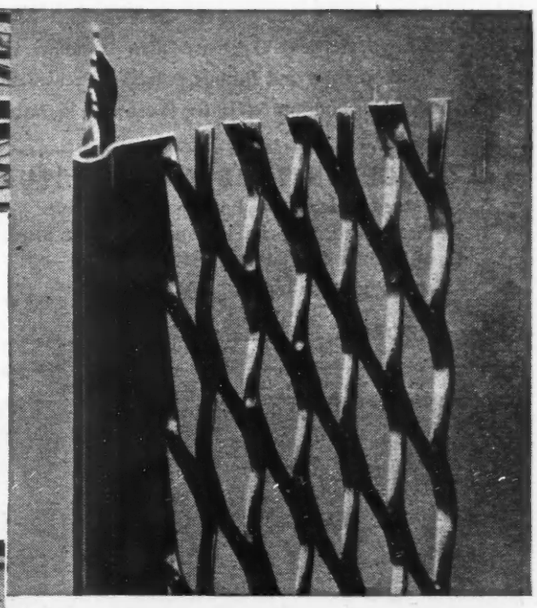

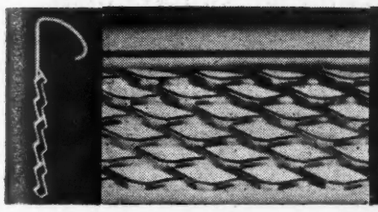

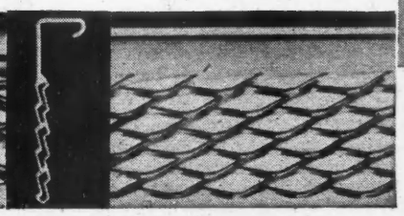

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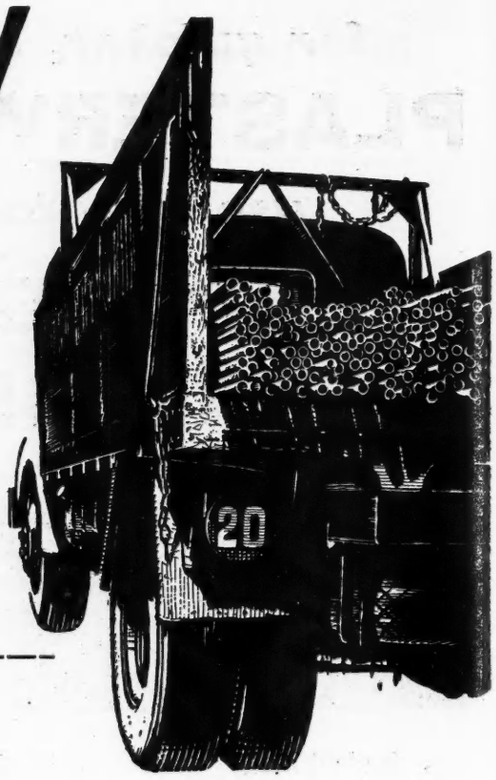


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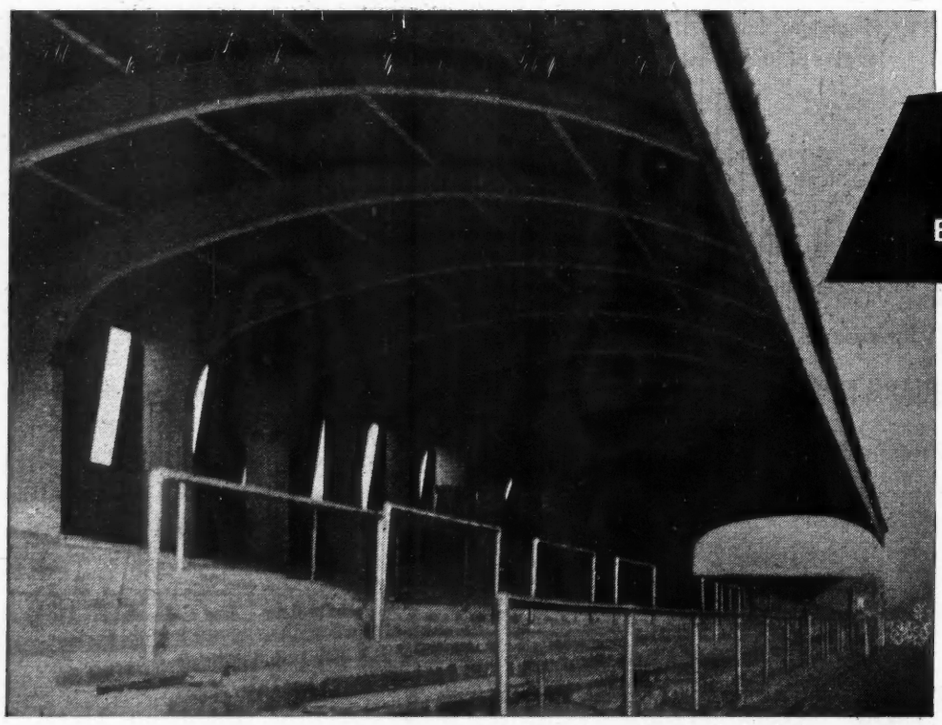

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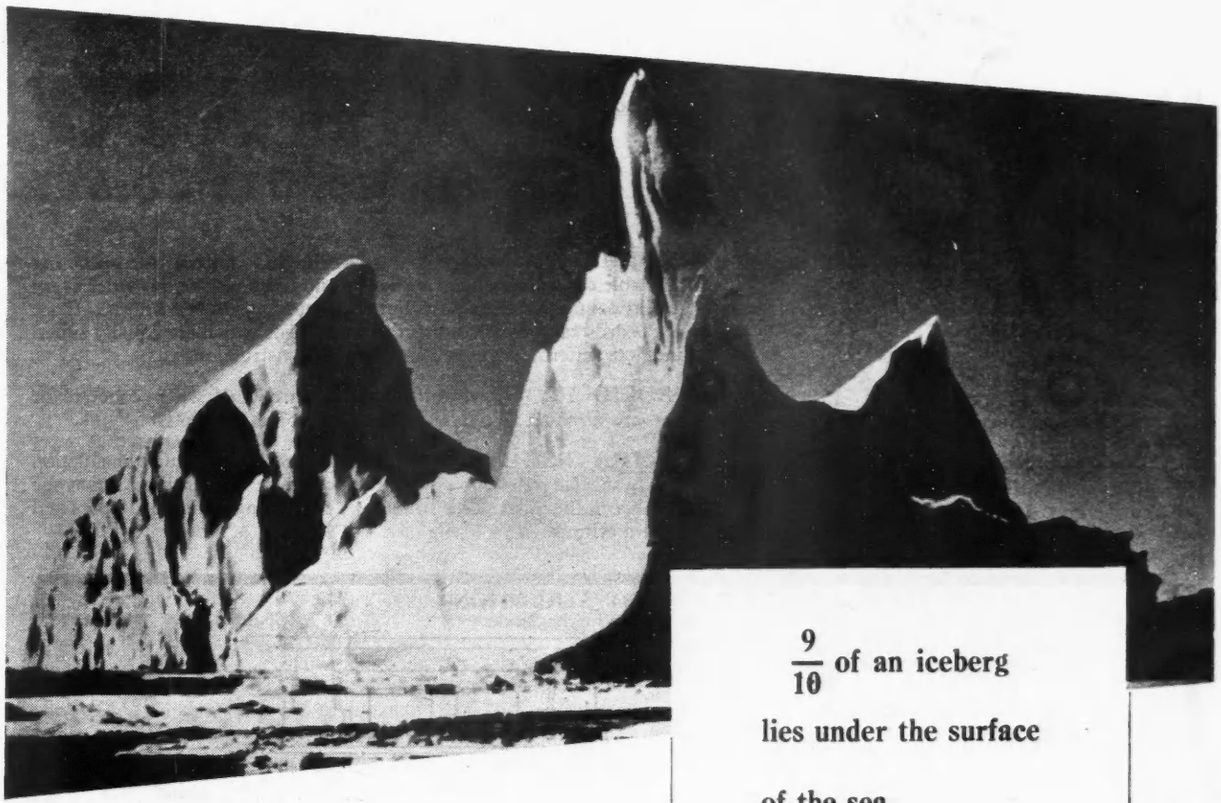

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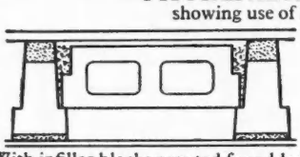
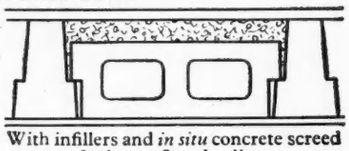
showing use of Breeze or Concrete Infiller Blocks



With infiller blocks grouted for added sound and thermal insulation.



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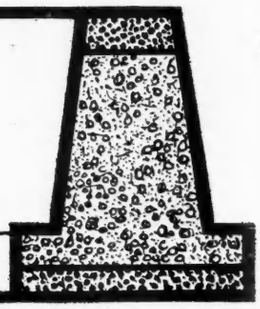

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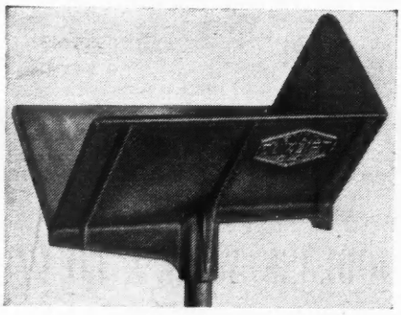

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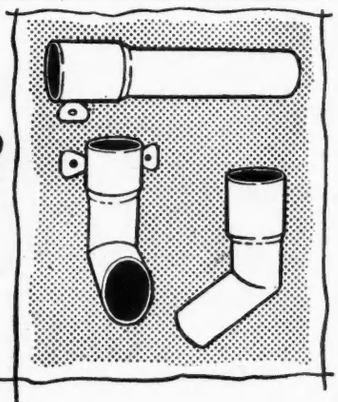

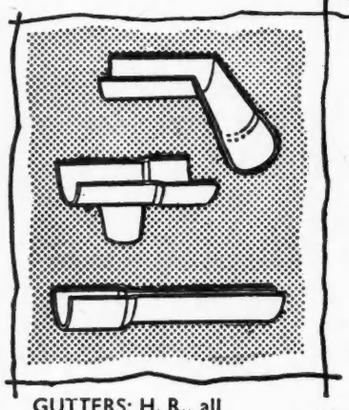

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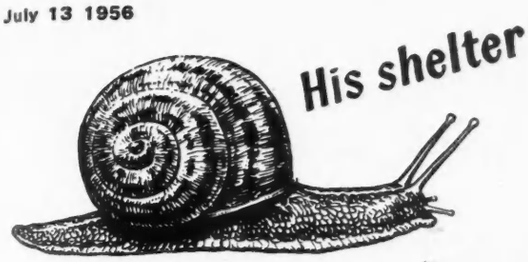

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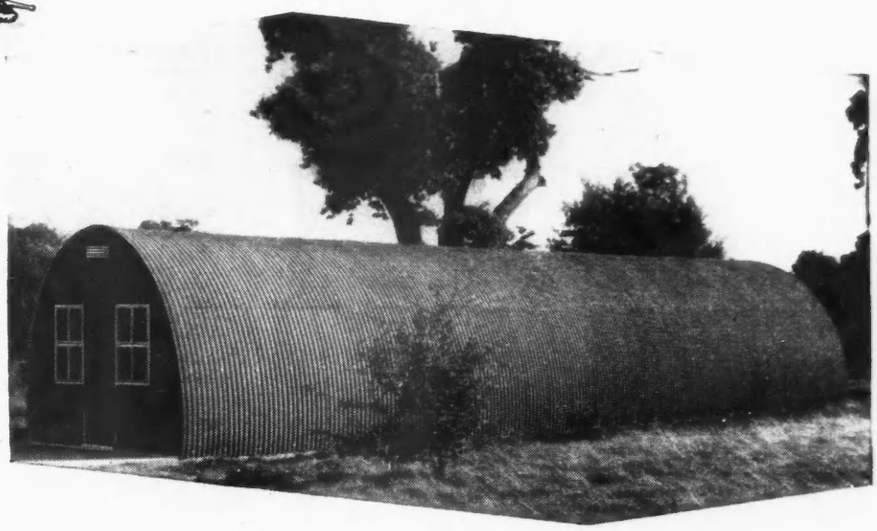

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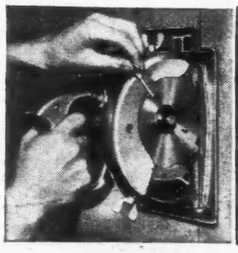

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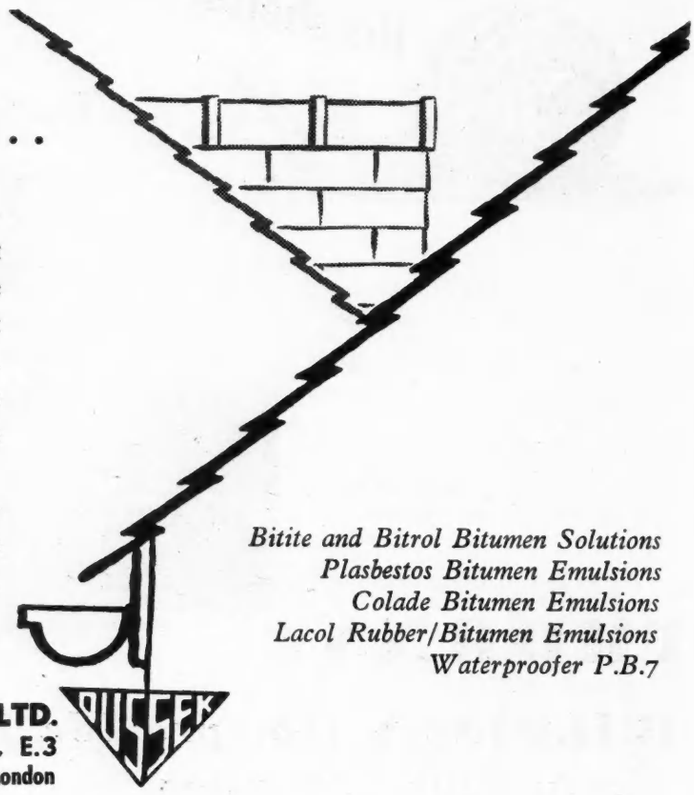


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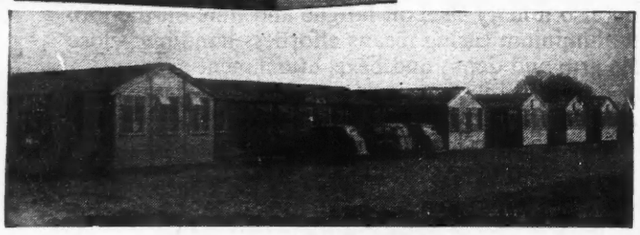

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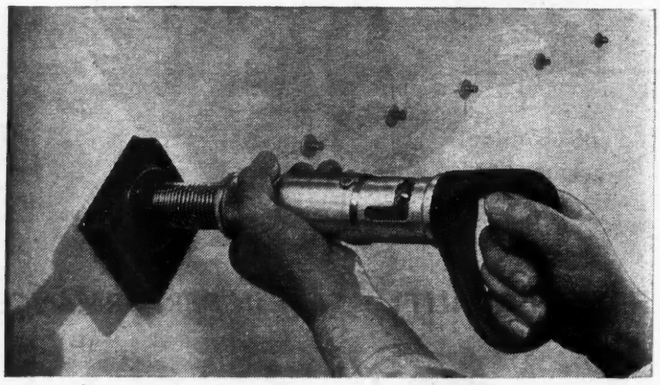

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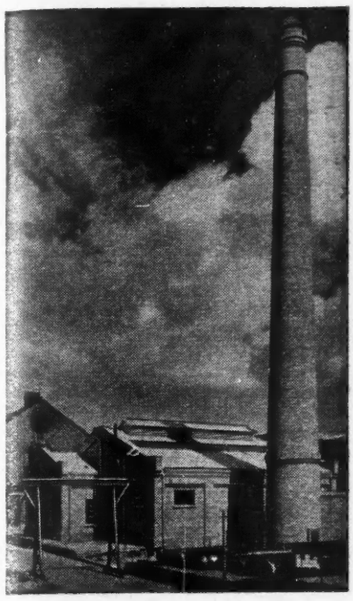

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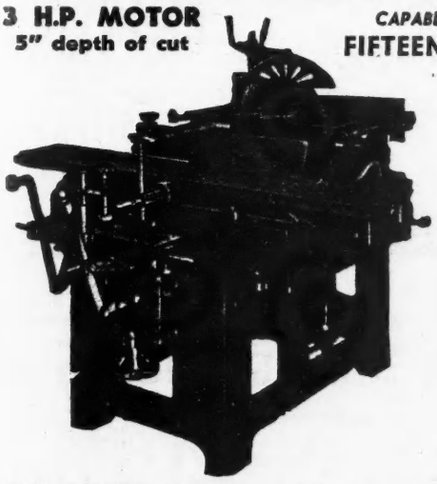

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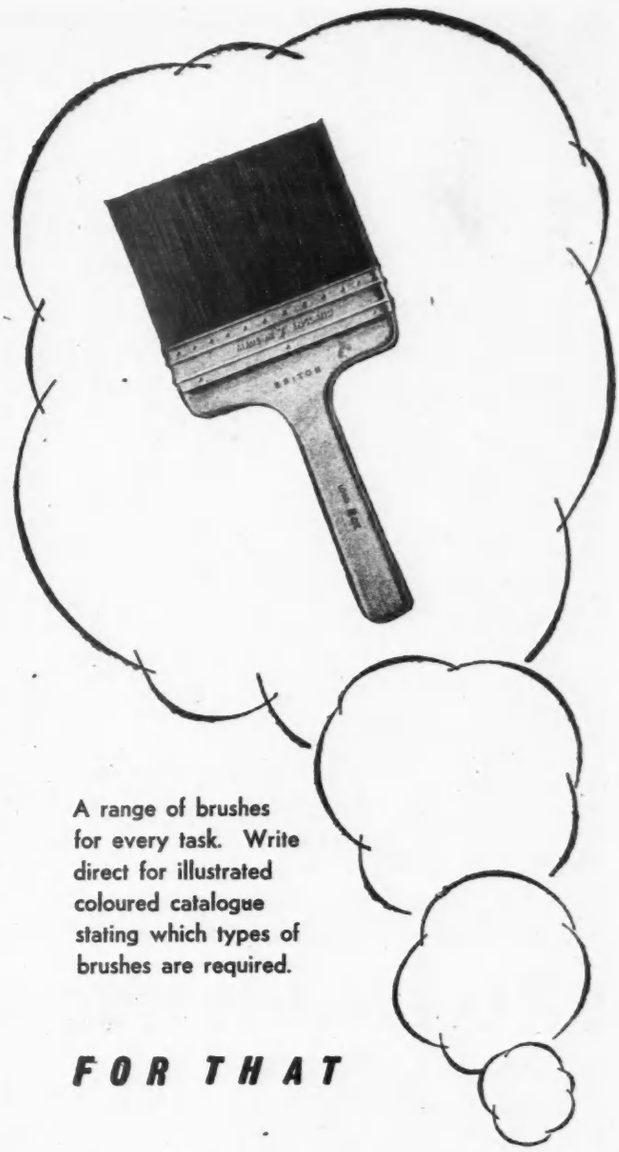

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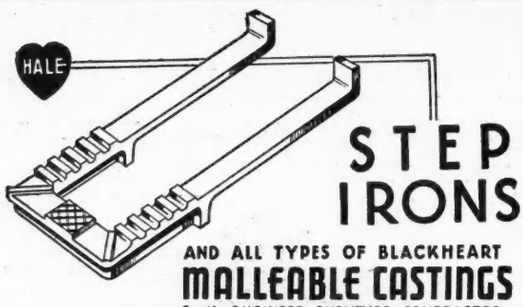


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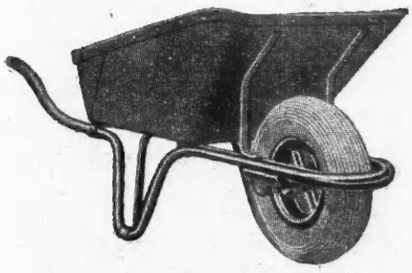

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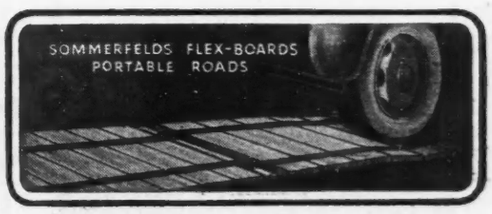

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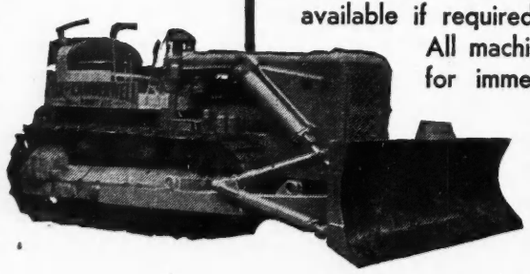

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JUNIOR MEASURING SURVEYOR Required by Chartered Quantity Surveyors for site work in Sussex.—Please reply stating age, experience and salary required to Box 1594, "The Builder."

QUANTITY SURVEYORS Required for Chartered Quantity Surveyor's Office in South Lincolnshire. —Please send details of qualifications, experience and training and salary required to Box 1595, "The Builder."

HIGGS & HILL, Ltd., 33, St. Paul's-street, Leeds, 1, require the services of an experienced SURVEYOR for two or three large contracts. Interim Payments to Final Account. Write giving details of experience and salary required.

JUNIOR SITE MEASURER or TAKER-OFF Required, Chartered Quantity Surveyors Branch Office, Berkshire. Five-day week. Tax free subsistence allowance.—Write, giving experience, etc., to Box 1596, "The Builder."

QUANTITY SURVEYOR Required for Building Contracts in the Birmingham-Wolverhampton area.—Write, stating age, experience, and salary required to Box 2102, "The Builder."

A VACANCY exists in a well established Civil Engineering and Building organisation for a JUNIOR SURVEYOR. Applicants must be capable of carrying out quantity surveying, both for Interim and Final Certificates, and negotiating with sub-Contractors, etc. The Appointment offers ample opportunity for scope and development to those with the necessary enterprise and initiative and able to take greater responsibility as their experience develops.—Write, giving details of age, past experience, etc., to Box 2101, "The Builder."

EXPERIENCED MEASURING SURVEYORS Required for final accounts, etc., London contracts Salary £800 to £1,000 per annum.—Apply in writing, RICHARDSON, Ronald Works, Slade Green, Erith, Kent.

BUILDING CONTRACTORS, QUANTITY SURVEYOR Required, with good experience in interim and final accounts also in detail and requisitioning of materials. There are good prospects for suitable applicant, pension scheme operative, write, giving full details of experience, age and salary required—LLOYD & CROSS LTD., Port Causeway, Bromborough, Cheshire.

MEASURING SURVEYOR Required for West-End Surveyors' Office. Five-day week. Young man preferred.—Telephone GERrard 7224.

CHIEF or SENIOR QUANTITY SURVEYOR Required by large Building and Civil Engineering Contractors in South London. Applicants must have a wide experience of measuring large works, able to price and negotiate final accounts, also to control staff. Aged 30 to 40, with estimating experience preferred.—Applications stating age, experience and qualifications should be addressed in confidence to Box 2146, "The Builder."

JUNIOR SURVEYOR Required by South West Wilts building firm, to assist with running of small contracts from start to finish. Good opportunities for man with drive and ability.—Apply giving full details to Box 2140, "The Builder."

NATIONAL Building and Civil Engineering Contractors have vacancies for SURVEYORS in the West Riding, who must be competent, keen and conscientious and able to deal with large and varied contracts from commencement to final account. Good salaries. Staff Bonus and Pension Schemes available for right men.—Write stating experience and salary required to Box 2151, "The Builder."

CHIEF QUANTITY SURVEYOR Required by Building Contractors. Successful applicant would be required to reside in the North of England, and his duties would be to control and supervise the surveying staff. Applicants must be keen, energetic and able to control staff dealing with a large number of contracts. Good salary to experienced man. Staff bonus and pension schemes in operation.—Write Box 2152, "The Builder," stating experience and salary required.

EXPERIENCED BUILDING SURVEYOR Required by West End firm of Chartered Surveyors. Aged 30-40. Capable of preparing Specifications and Drawings of minor building works and conversions, pricing and settlement of Dilapidation and Compensation Claims, and the ordering and settling of estate maintenance repairs. Salary £1,000 or according to qualifications. Three weeks' holiday.—Write stating full particulars of experience to Box 2150, "The Builder."

CHARTERED QUANTITY SURVEYOR Required by Manchester firm of Architects.—Apply giving details of age, experience and salary required to Box 2154, "The Builder."

EXPERIENCED SURVEYOR Required by progressive Gloucestershire firm of Contractors, to measure Air Ministry Building and Civil Engineering Contracts. A good knowledge of the A.M. Schedule essential. A keen man aged 30-40 required, capable of working on own initiative and able to prepare interim and final accounts. The post is permanent and pensionable, and holds attractive prospects in an expanding field. Substantial salary to right man with generous bonus on results.—Apply stating age, experience and approximate salary requirement to Box 2165, "The Builder."

PLASTERING: Fully experienced MEASURING SURVEYOR Required by London Firm of Plastering Contractors; position permanent. Salary according to experience and age. Contributory Pension Scheme in operation.—Apply in writing, stating age and experience to Box 2167, "The Builder."

SITE SURVEYOR Required August/September for housing contract Welwyn to work in conjunction with Agent, Bonusing, Certificates, Variation Orders and final accounts.—Apply, stating age, experience, and salary required, J. M. HILL & SONS LTD., Heather Park-drive, Wembley, Middlesex.

SITE SURVEYOR Required to take charge of Quantity Surveying duties on two Schools in Durham area involving interim certificates, re-measure of provisional quantities, and measuring variation orders. Salary £600 per annum, subject to qualifications.—Applications, with references, stating age and experience to ARNOLD E. TOWLER, A.R.I.C.S., 117, Fishergate, Preston, to arrive within seven days of this notice.

MEASURING SURVEYOR Required by City firm of Chartered Surveyors. Five-day week. Pension scheme.—Write Box 2141, "The Builder."

CHARTERED Quantity Surveyor has vacancies on his staff for several JUNIOR ASSISTANTS for working-up.—Reply giving details of age, experience, etc., and salary required, to Box 966, "The Builder."

ASSISTANT SURVEYORS Required for site measuring on Building and Civil Engineering Contracts in Chester and Ellesmere Port areas.—Apply stating full details of experience, salary required and when available to A. MONK & COMPANY, LTD., Padgate, Warrington.

QUANTITY SURVEYING SENIOR ASSISTANT Required by Consulting Engineers in Westminster. Previous experience in Civil Engineering Quantities essential. The post is a senior one and the age range is up to about 45. Salary will be based on experience and qualifications. The location of the work is London, but for those who are interested in work abroad there will be opportunities for consideration. —Box 2112, "The Builder."

JUNIOR ASSISTANT Required by London Quantity Surveyors for working-up and site measuring duties; five-day week.—Reply, stating age, experience, and salary required, to Box 2108, "The Builder."

ASSISTANT BUILDING SURVEYOR Required for Chartered Surveyors' office, South West Essex. About Intermediate Standard. Work varied and interesting. Candidate should have knowledge of building construction, be neat, capable draughtsman and able to prepare specifications and schedules under supervision.—Write, stating age, previous experience, salary required, etc.—Box 2142, "The Builder."

ASSISTANT SURVEYOR Required, capable of measuring and agreeing all Sub-Contractors' accounts and preparation of final accounts.—Reply stating age, experience, and salary required, C. MISKIN & SONS, LTD., Romeland, St. Albans.

JUNIOR ASSISTANT to work with Surveyor. Increased costs, labour and materials, etc. Opportunity for young man to increase knowledge of trade. —Write, age, salary and experience, to Box 2196, "The Builder."

OFFICE JUNIOR Required in Westminster Quantity Surveyor's office. Please send full particulars, availability and salary required, to Box 908, "The Builder."

IS YOUR SON LEAVING SCHOOL? If he is intelligent and hardworking he could obtain an interesting and progressive situation in a Quantity Surveyors' office.—If interested, please write Box 1628, "The Builder."

YOUNG MAN (16-18) wishing to enter the Quantity Surveying profession required. Reply, stating age, and details of education to REYNOLDS & YOUNG, Chartered Quantity Surveyors, 329, High Holborn, London, W.C.1.

OFFICE JUNIOR Required by Quantity Surveyors; five-day week.—GLEEDS, 106, Regent-street, London, W.1. (Regent 5111.)

OFFICE JUNIORS, desirous of learning profession, Required in West End Quantity Surveyors' Office. Ample scope for advancement.—Please reply stating age, availability, and salary required to Box 2145, "The Builder."

JUNIOR ASSISTANT, leaving school, Required for Quantity Surveyors' Office. Progressive position. —Box 2164, "The Builder."

JUNIOR TAKER-OFF Required in Westminster Quantity Surveyors' office. Excellent opportunities for advancement and for gaining experience in all classes of both English and Overseas work.—Apply Box 986, "The Builder."

TAKERS-OFF Required by West End firm of Chartered Quantity Surveyors. Must be experienced and permanent; five-day week.—Box 956, "The Builder."

CHARTERED Quantity Surveyors require TAKER-OFF/MEASURING SURVEYOR for their Site Office Staff in Essex. Intermediate R.I.C.S. standard considered, but preference given to qualified candidate. Five-day week. Modern house probably available if required. Commencing salary £750 per annum. —Reply with full details to Box 996, "The Builder."

SENIOR TAKER-OFF Required by London Chartered Quantity Surveyor. Good salary and prospects to a man having experience of large schemes.—Application with details to Box 916, "The Builder."

SENIOR TAKER-OFF Required by Westminster Quantity Surveyors. The post is a responsible one and there are ample opportunities for suitable applicant. Lunch vouchers provided.—Reply, stating salary required, to Box 991, "The Builder."

TAKER-OFF Required, A.R.I.C.S. preferred. Good prospects, luncheon vouchers.—Please write stating experience, age and salary required to WOOD & WEIR, 5, Wigmore-street, W.1.

TAKER-OFF Required by London Chartered Quantity Surveyors, W.C.2. Five-day week. Write stating salary required.—Box 904, "The Builder."

NORTHERN IRELAND—JUNIOR TAKER-OFF or one recently qualified Required for Chartered Quantity Surveyor's office in Belfast, salary according to experience.—Box 1597, "The Builder."

TAKERS-OFF, SITE MEASURING SURVEYOR AND WAR DEPT. SCHEDULE SURVEYOR Required in Manchester and London Offices of LAV & PARTNERS, 71, Wimpole-street, London, W.1.

LEEDS Chartered Quantity Surveyors Require a TAKER-OFF or MEASURING SURVEYOR. L.V. and Pension Schemes.—Please reply, stating details of experience and salary required, to Box 1598, "The Builder."

TAKERS-OFF AND WORKERS-UP. Senior and Junior positions available. Five-day week. Holiday arrangements honoured.—Details, in writing, to H. B. TWEED, A.R.I.C.S., 14, Tithebarn-street, Liverpool, 2.

JUNIOR & SENIOR TAKER-OFF Required by Chartered Quantity Surveyors, for permanent and progressive posts; varied work and five-day week.—Apply stating age, experience and salary required to Box 1560, "The Builder."

CHARTERED Quantity Surveyor requires experienced TAKER-OFF for work in London Office.—Reply stating age, experience and salary required to Box 1599, "The Builder."

SENIOR TAKERS-OFF, preferably qualified, required by established firm of Chartered Surveyors in Northern Rhodesia. Good salaries to men of experience. Medical aid and Pension Scheme in operation.—Applications stating age, marital status, and full details of experience to Messrs. EVANS & WIMSHURST, F/F.R.I.C.S., P.O. Box 424, Lusaka, Northern Rhodesia.

TAKER-OFF Required. Westminster district. £1,000 per annum, plus overtime.—Box 1600, "The Builder."

QUALIFIED TAKER-OFF wanted by Holborn firm of Chartered Quantity Surveyors. No Saturday work; pension scheme; luncheon vouchers. When replying, please give full details.—Box 1601, "The Builder."

TAKER-OFF Required, A.R.I.C.S. preferred. Good prospects, luncheon vouchers.—Please write stating experience, age and salary required to WOOD & WEIR, 5, Wigmore-street, W.1.

TAKER-OFF Required in Quantity Surveyors' office. —Reply stating age, experience and salary required to E. R. BABBS & SONS, 187, Piccadilly, London, W.1.

TAKER-OFF or MEASURING SURVEYOR (A.R.I.C.S.) recently qualified, required for Chartered Quantity Surveyors Branch Site Office in Berkshire. House available. Five-day week. Subsistence allowance.—Write, giving particulars, Box 1602, "The Builder."

JUNIOR TAKER-OFF Required by HARRIS, ROURKE & SIMPSON, Chartered Quantity Surveyors. Pension scheme. Five-day week.—Write to 26, Soho-square, or telephone Gerrard 8943.

JUNIOR TAKER-OFF about intermediate standard required. Varied practice including site measurement, COGAN & PARTNERS, 55, Pall Mall, S.W.1. WHI. 3848.

SENIOR TAKER-OFF Required by Chartered Quantity Surveyors near Holborn. Varied work. Good salary to experienced person. Five-day week. Pension scheme in operation.—Please write with particulars to Box 2116, "The Builder."

TAKER-OFF (JUNIOR) Required by Chartered Quantity Surveyors near Holborn. Good prospects for advancement. Five-day week. Good salary and overtime.—Write stating age and experience to Box 2117, "The Builder."

JUNIOR TAKER-OFF Required by London Quantity Surveyors; five-day week.—Reply, stating age, experience, and salary required, to Box 2111, "The Builder."

SENIOR TAKER-OFF Required by Chartered Quantity Surveyors, Westminster.—Box 2185, "The Builder."

AUSTRALIAN Quantity Surveyors require TAKERS-OFF and WORKERS-UP. Three-year contract. Passage and initial accommodation arranged. London interview. State experience, salary required and when free.—Box 2193, "The Builder."

LONDON Chartered Quantity Surveyors require TAKERS-OFF and WORKERS-UP. Good prospects. Holiday dates honoured. State experience, salary required and when free. — Box 2194, "The Builder."

SOUTH AFRICAN Quantity Surveyors require TAKER-OFF. R.I.C.S. final standard. Excellent prospects. Passage and initial accommodation arranged. London interview. State experience, salary and availability.—Box 2195, "The Builder."

JUNIOR TAKER-OFF Required by Chartered Quantity Surveyors, Westminster.—Box 2184, "The Builder."

TAKER-OFF Required at 40, Binley-road, Coventry. Salary according to ability.—Particulars from A. H. DAVIS & PARTNER, Quantity Surveyors, 28, Osborne-road, Newcastle upon Tyne, 2.

EXPERIENCED TAKER-OFF Required by old-established Quantity Surveyors in Westminster. Write stating experience, age and salary required.—Box 907, "The Builder."

JUNIOR TAKER-OFF Required by newly established firm of Chartered Quantity Surveyors in the City. Good opportunity for a keen man.—Phone MAN 5500.

TAKER-OFF, experienced (A.R.I.C.S. preferred), Required by busy, old-established firm of Chartered Quantity Surveyors in Westminster. Commencing salary £900 to £1,100 p.a. according to experience. Five-day week; overtime available. Holiday arrangement this year.—Apply Box 2199, "The Builder."

BIRMINGHAM CHARTERED QUANTITY SURVEYORS' office require JUNIOR TAKER-OFF. Five-day week. Good prospects to suitable applicant.—'Phone Birmingham Central 2894.

NEWBERRY & WYATT, AA.R.I.C.S., invite applications for position of TAKER-OFF. Applicants with at least five years' professional experience are requested to write, giving details, to 172, Buckingham Palace-road, S.W.1.

CHARTERED QUANTITY SURVEYORS, Westminster, require temporary assistance in Taking-Off and Working-Up.—Box 2186, "The Builder."

EXPERIENCED WORKER-UP Required by London Chartered Quantity Surveyors, with prospects of site measuring and junior taking-off.—Applications with details to Box 927, "The Builder."

WORKER-UP (preferably one who does not want to do taking-off) Required by London Chartered Quantity Surveyors. Permanent position. Attractive bonus scheme for good worker. Pension scheme available.—Please reply, in confidence, to Box 924, "The Builder."

CHARTERED Quantity Surveyors have a vacancy for a competent WORKER-UP, preferably with orthodox professional background, for duty in their Harlow (Essex) site office. Possibility of modern house for suitable candidate. Commencing salary £550 per annum. Five-day week, pension scheme. Interviews arranged London or Harlow.—Reply, stating age and past experience, to Box 998, "The Builder."

WORKER-UP Required by progressive London firm engaged largely on industrial and public works. The post is permanent and there is a Staff Pension scheme.—Please reply to Box No. 374, GLOVERS ADVERTISING, Ltd., 351, Oxford-street, London, W.1.

WORKERS-UP Required by West End firm of Chartered Quantity Surveyors, must be experienced and permanent. Five-day week.—Box 968, "The Builder."

WORKERS-UP Required. Five-day week. Overtime available.—Write, stating age, experience, and salary required, to SYDNEY C. GORDON, Finsbury House, 22, Blomfield-street, London, E.C.2.

NORTHERN IRELAND—WORKER-UP Required for Chartered Quantity Surveyor's office in Belfast, salary according to experience.—Box 1603, "The Builder."

WORKER-UP Required for Quantity Surveyor's office in the Medway Towns, opportunity to advance to Taking-off will be provided. Overtime and bonuses paid:— two weeks holiday this year.—Reply, stating brief details of experience together with age and salary required to Box 1604, "The Builder."

WORKER-UP Required in C.Q.S. City office. Must have had at least 10 years' first-class experience. Salary £750 per annum (basic). Particulars of education, training and experience in handwriting—Box 1605, "The Builder."

EXPERIENCED WORKERS-UP Required for duties on large site near Rochester. This work will continue for about three years.—Please write, stating age, experience and salary required to Box 1606, "The Builder."

WORKERS-UP seeking progressive appointments in Chartered Quantity Surveyors' Holborn office, should write, giving full particulars.—Box 1607, "The Builder."

EXPERIENCED WORKER-UP AND JUNIOR Required in Quantity Surveyors' Office near Victoria Station. Five-day week. Luncheon vouchers. —Write stating age, experience and salary required to Box 987, "The Builder."

JUNIOR WORKER-UP Required, aged 18-23, for working-up from dimensions to account stage.—Apply, in writing, stating age, previous experience, and salary required, to MAINTENANCE OFFICE, CAFFIN & CO. LTD., 25, Craven-street, London, W.C.2.

WORKER-UP (Male or Female) Required by London Quantity Surveyors; five-day week. —Reply, stating age, experience, and salary required, to Box 2109, "The Builder."

OPPORTUNITY in expanding Westminster office for WORKER-UP with initiative. Salary up to £10 per five-day week.—Write fully details to Box 1576, "The Builder."

SENIOR WORKER-UP Required by London Quantity Surveyors; five-day week.—Reply, stating age, experience, and salary required, to Box 2110, "The Builder."

WORKER-UP Required by Chartered Quantity Surveyors near Strand. Five-day week. Good salary and overtime.—Write stating age and experience to Box 2118, "The Builder."

EXPERIENCED WORKER-UP Required by old-established Quantity Surveyors in Westminster. Write stating experience, age and salary required.—Box 909, "The Builder."

EXPERIENCED WORKER-UP Required. Five-day week. Reply stating age, experience and salary required.—ALFRED J. H. SPRAGUE & SON, 72, New Cavendish-street, W.1.

SENIOR WORKER-UP to take charge in London Chartered Quantity Surveyors' Office. Salary by arrangement.—Box 1608, "The Builder."

EXPERIENCED WORKERS-UP Required. Male or Female, by busy, old-established firm of Chartered Quantity Surveyors in West End. Five-day week; good commencing salary and prospects; overtime available. Holiday arrangement this year.—Write Box 2200, "The Builder."

WATFORD Chartered Quantity Surveyors require JUNIOR AND SENIOR WORKERS-UP.—Write, stating age, experience, and salary required, to V. B. JOHNSON AND PARTNERS, Leet Court, King-street, Watford, Herts.

COMPETENT WORKER-UP Required in London Quantity Surveyors' Office. The opportunity will be given to commence site measuring and taking-off after 18 months' service. Permanent position. Five-day week.—Reply, stating age, experience, and salary required to, Box 2188, "The Builder."

FULLY experienced SITE ENGINEERS capable of setting out all types of building work Required by well-known London Contractors. Pension, bonus and sickness schemes in operation. — Applications stating age, experience and salary required to Box 1609, "The Builder."

**SITE ENGINEERS OR LAND SURVEYORS.**

WILSON, LOVATT & SONS, Ltd., Clarence-street, Wolverhampton, have vacancies on opencast coal sites in South Wales and the East Midlands for experienced MEN capable of measuring and keeping records of such work. Apply with full particulars to Personnel Manager.

WANTED: HEATING ENGINEER to run rapidly developing Heating Department of well-established Company in the London area. Would eventually lead to directorship. Also interested in token investment in Company.—Reply Box 2123, "The Builder."

ASSISTANT ENGINEER Required for duties involving setting out of Roads, Sewers and Houses and assisting with preparation of estate layout and design work. Permanent pensionable post with good prospects.—Please apply, stating age, experience and salary required to CROUDACE LTD., 97, Godstone-road, Caterham, Surrey.

CLERK OF WORKS Required for a City building in Central London.—Please apply in writing giving particulars of experience, etc., to Messrs. BATES & SINNING, 89, Chancery-lane, London, W.C.2.

EXPERIENCED CLERK OF WORKS Required for Building Contract, large office block, London.—Write, stating experience, salary required, to Box 1610, "The Builder."

CLERK OF WORKS Required for Contract about to commence on site near Newcastle upon Tyne. Must be experienced in supervision of drainage and building works.—Applications stating age, detailed experience and salary required to Box 2149, "The Builder."

CLERK OF WORKS Required in connection with Rebuilding and Extension to Works in West London area. Appointment expected to last two years. —Applicants should write stating qualifications, details of past appointments and salary required to Box 2166, "The Builder."

CLERK OF WORKS Required for large industrial project, including canteen, laboratories and office building on outskirts of Manchester. Appointment to last about three years in the first instance with the probability of further engagement for the right man. Initial salary £900 per annum.—Reply by 30th JULY, stating age and experience, to SCHERRER AND HICKS, Chartered Architects, 19, Cavendish-square, London, W.1.

SHOPFITTING ESTIMATOR Required, also with ability to produce a drawing and interview clients. Good salary and prospects.—Apply GROVE STORE-FITTERS, Bangor-road, Brentford. EAL. 3604.

ESTIMATOR Required for reinforced concrete light framed structures, hollow tile floors, etc. Five-day week. Pension scheme.—Apply in writing, giving brief details of experience and salary required to: THE HELICAL BAR & ENGINEERING COMPANY LTD., 82, Victoria-street, London, S.W.1.

SENIOR ESTIMATOR Required fully experienced in tendering for Building and Civil Engineering contracts and able to work with minimum amount of supervision. Salary commensurate with experience. —Apply in writing giving details of age, experience and qualifications to—The General Manager, THE BUTTERLEY COMPANY, LTD., Civil Engineering Department, Butterley Park, Ripley, Derby.

ESTIMATOR and SURVEYOR Required. Capable of handling Contracts from enquiry to final account including alterations and reconstruction, and new buildings of all types. Applications to be made in writing, stating age, experience, and salary required to—R. HEWETT, LTD., Cleveland Works, Acton Green, W.4.

PAINTING CONTRACTORS require SENIOR and JUNIOR ESTIMATOR SURVEYORS. —Reply in writing, stating age and salary required, to P. J. HARTEL (London), Ltd., 19, Charing Cross-road, W.C.2.

ESTIMATORS Required in Westminster Builders' and Contractors' Office. Must be experienced in pricing, alteration and decoration work; also bills of quantities for new work. Pension scheme in operation. Every other Saturday free.—Write stating age, experience and salary required, to Box 1611, "The Builder."

ESTIMATOR/SURVEYOR Required by E. Yorkshire Building Contractors. Permanency with prospects for right man. Knowledge W.D. Schedule an advantage.—Write, stating age, experience, and salary required to Box 2104, "The Builder."

ESTIMATOR Required for N.W. Joinery Manufacturers' Office. Experience required in pricing Joinery from Bills of Quantities for Housing and Schools. Experience in Timber Roof Work would be an advantage.—Reply to Box 1624, "The Builder," stating age, experience, and salary required. Permanent position with Pension scheme.

YOUNG ESTIMATOR for small Contracts, Alterations and Property Maintenance. Capable of handling jobs from initial enquiry to completion, including supervision and to assist Manager in all general duties.—Full details to E. & S. BUILDERS LTD., 207, Station-road, Harrow, Middlesex.

ASSISTANT ESTIMATOR-SURVEYOR experienced in estimating and quantity surveying for all types of building and contract work required for Head Office of large Building Contractors. Salary commensurate with ability and experience.—Please write, giving full particulars, to C. JENNER & SON, LTD., 5/7/9, Bouverie-road East, Folkestone.

ESTIMATOR—Shopfitting, fully experienced in all branches of Shopfitting trade: Good salary.—CITY INDUSTRIAL LTD., 132, Old-street, E.C.1. CLE. 0222.

JUNIOR ESTIMATOR/SURVEYOR Required by medium-sized building firm in West Wiltshire. Progressive position for man with initiative and ability.—Apply in writing, giving full details, to R. BUTCHER & SON, George-street, Warminster.

ESTIMATOR Required for Joinery Trade. Take-off from drawings. Price Bills of Quantities. Permanent and pensionable. Salary £600 upwards.—Box 2189, "The Builder."

ASSISTANT ESTIMATOR with experience of small works Required by Building Contractors in Chelsea.—Full details to Box 2168, "The Builder."

ESTIMATOR/SURVEYOR Required by expanding West End Builders for all types of Contract, ranging from small works to £250,000 in value.—Box 2163, "The Builder."

BUILDING ESTIMATOR Required with sound knowledge of Joinery.—Apply to STAVERTON BUILDERS, Ltd., Staverton, Totnes, S. Devon, stating experience, age and salary required.

MANAGER Required for medium-size Building Company engaged in contracting and maintenance work with Head Office situated in N.W.3 London district. Would have the assistance of active director. Good salary for right man with share in profits; car provided or allowance for using own. Possibility of Directorship if successful results are produced.—Reply in writing, stating age, experience and salary required, to Box 1612, "The Builder."

**F. SHEPHERD & SON LTD.**

*Building & Civil Engineering Contractors*

VACANCY FOR

# CONTRACTS MANAGER

Applications are invited from experienced men, preferably not over 40 years of age, for a position as Contracts Manager in a well organised and progressive private company of building and civil engineering contractors. The company employs approximately 1,500 people, is old established and carries out a wide variety of building and civil engineering work mainly in Yorkshire and Co. Durham, has its Head Office in York and permanently established Area Offices in Richmond (Yorks.) —Scarborough—Hull and Bradford.

This vacancy, for contracts in York and the West Riding, has arisen as a result of promotion within the company and continued expansion of business.

The post will be of particular interest to men experienced in effectively taking charge of a group of contracts who are now seeking an established and progressive position in a settled locality where lodging away from home is not necessary. It is also an opportunity to join a growing company and participate in the application of advanced production techniques.

Applicants must have first class production experience with reputable firm(s) on a variety of building work other than housing and a keen interest in modern methods. The successful applicant is assured of the full support of an efficient organisation.

The company offers attractive staff conditions including progressive salary, annual bonus, very favourable pension and life assurance scheme and the provision of a car. Assistance will be given in securing a house if required.

Written applications, which will be treated in strict confidence, should state age, full details of experience, some indication of commencing salary required, and should be addressed for the personal attention of:

P. M. Shepherd,

*Managing Director,*

**F. SHEPHERD & SON LTD.**

*Building & Civil Engineering Contractors*

**Blue Bridge Lane, YORK**

OFFICE MANAGER AND ACCOUNTANT, preferably qualified, required for progressive Building Contractors. Commercial experience if possible in building industry. Permanent pensionable position. Present holiday arrangements accepted. Residence in Birmingham area is essential. Send full particulars including salary required, in envelope marked "private and confidential" to, Secretary, C. BRYANT & SON LTD., Whitmore-road, Small Heath, Birmingham, 10.

A YOUNG MAN, work-study trained and with considerable civil engineering or building experience, wanted as BUILDING MANAGER on staff of large building and civil engineering company. Basic salary £1,500 with excellent prospects; technical qualifications welcomed. Man appointed would have close support from Planning and Work Study Department and would have control, under a Regional Manager, of experienced agents and foremen in charge of substantial contracts. No consideration given to applicant who has not a modern outlook and training with exceptional drive and ability.—Box No. 410, c/o, WALTER JUDD, Ltd., 47, Gresham-street, London, E.C.2.

CONTRACTS MANAGER Required by South London firm of Building Contractors, to be responsible for organisation and supervision of a number of contracts in and around London. Previous experience in this position desirable. Craft trained preferred. Pension scheme available. Write stating age, experience and salary required.—Box 2201, "The Builder."

JOINERY WORKS MANAGER Required by firm in Midlands employing 150/200 operatives specialising in all sections of high-class joinery and furniture manufacture. Must be fully experienced and qualified in all branches, administrative and technical.—Reply, giving fullest details of previous experience and salary suggested, to Box 2156, "The Builder."

# MARLEY

*REQUIRE A*

FIRST-CLASS MAN TO TAKE CHARGE OF ERECTION OF THEIR PRE-CAST CONCRETE FLOOR BEAMS AND ASSOCIATED SITE WORK.

•

Applicants must have good management and organising ability and must be able to deal with all aspects of the Building and Contracting side of the business.

Superannuation scheme in operation.

Salary commensurate with ability.

•

*Write, giving age, full details of education, experience and qualifications, to:*

The Works Director,

**The Marley Tile Company**

LIMITED

Sevenoaks • Riverhead • Kent

**Only applicants selected for interview will be notified.**

ASSISTANT BUYER wanted under direction of Director. Must be used to current prices and some knowledge of taking-off materials for ordering. This post is an important one.—Write stating age, experience and salary required to Box 2120, "The Builder."

REPRESENTATIVE Required. Knowledge of building trade and materials. Excellent opportunity for energetic man with initiative. Good salary.—Apply RICHARD BIFFA LTD., Wembley Hill-road, Wembley.

SITE CLERKS Required for Building and Civil Engineering Contracts. Duties include wages, P.A.Y.E., material records, plant records and costing. —Please reply, stating age and full details of experience, to the Office Manager, THE BUTTERLEY CO., Ltd., Civil Engineering Dept., Butterley Park, Ripley, near Derby.

BUILDERS' CLERK Required in Contractors' Accounts Dept., Wembley area.—Write, age, salary and experience, to KYLE, STEWART, Ltd., 338, Kilburn High-road, N.W.6.

WAGES CLERK and BOOKKEEPER wanted, Pinner (Male or Female), with experience P.A.Y.E.—Write for appointment, giving age, previous experience and salary required. E. HARRIS (BUILDER) LTD., 87 Paines-lane, Pinner.

COMPTOMETER OPERATOR Required in Q.S. City office. Must be 100 per cent. reliable and have had at least five years' in a Q.S. office. Salary £40 per month. Full particulars in handwriting.—Box 1613, "The Builder."

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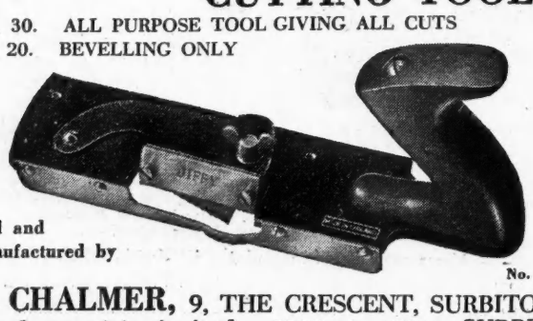

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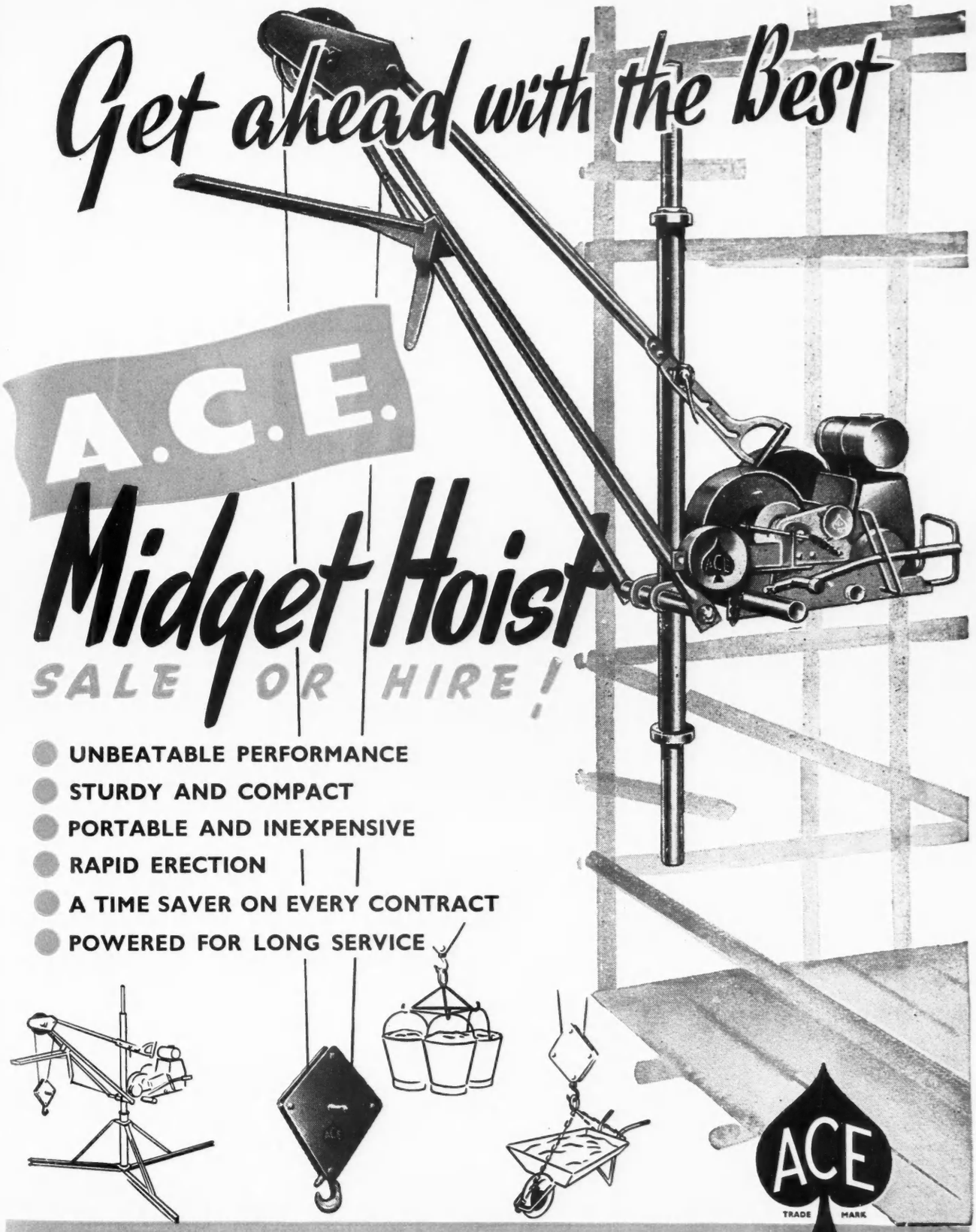

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